Index

MONTHLY CATALOG, JANUARY–DECEMBER 1966

NOTE.—Entries appear in this Index under subjects or titles. Bulletins, circulars, etc., having no specific subjects are entered under the issuing office only. Index citations are to entry numbers in the catalog.

A

A.E.C., *see* Atomic Energy Commission
A.F.O.S.R., *see* Air Force Office of Scientific Research.
A.G.O., *see* Adjutant General's Office.
A.I.D., *see* International Development Agency.
A.M.C., *see* Army Materiel Command.
A.P.R.O., *see* Army Personnel Research Office.
A.P.T., *see* Automatic picture transmission.
A.R.S., *see* Agricultural Research Service.
A.R.S. series, 8–12, 1574–75, 3726–35, 5264–71, 6709–14, 8124–32, 9772–90, 11337–338, 12579–585, 14100–113, 15434
A.S.C.S., *see* Agricultural Stabilization and Conservation Service.
AAL, *see* Arctic Aeromedical Laboratory.
Aase, James H., mineral industry of Iowa, 1126
AAU, *see* Amateur Athletic Union.
Abaca, disposal from national stockpile, hearing, 570
Abadi, Victor, relief, 8695
Abbot, C. G.:
  account of Astrophysical Observatory of Smithsonian Institution, 9647
  forecasting from harmonic periods in precipitation, 9648
Abbott, Donald I., relief, 5722, 15691, 15811
Abbott, E. V., strains of sugarcane mosaic virus, 8170
Abbreviations:
  aircrew stations, military standard, 8814
  contractions used by FAA, air traffic control, etc., handbook, 9878
  Federal aviation regulations, 5916, 8875–76
  Federal item identification guides for supply cataloging, 4253
  power and rate terms, glossary, 4382
  used in Latin American press, 10750
Abd-el-Kuri Island, birds, 18096
Abele, Gunars:
  performance testing of air cushion vehicle on Greenland ice cap, 9890
  subsurface transportation methods in deep snow, 8246
Abernethy, Roy F., direct determination of oxygen in coal, 9375
Ability:
  grand strategy of human resources, 4328
  human resources of Latin America, survey of efforts for developing, 5155
  1967 national ability counts contest for 11th and 12th grade students, announcement, 7650
  perceptual-psychomotor tests in aircrew selection, historical review and advanced concepts, 14184
  tests for measurement of primary perceptual-motor performance, development, 4805
  see also Self-organizing systems.
Ablating materials:
  charring ablation thermal protection system, analysis, 2432
Ablating materials—Continued
  computer simulation program, adaptable to industrial processes, 16641
  evaluation as nozzle sections of storable-propellant rocket engine, 9500
  heat-shield, high-velocity impact craters in, determination of temperature and material effects, 16689
  nonmetallic, evaluation as nozzle sections of hydrogen-oxygen rocket engine, 9510
  outgassed boron nitride and boron nitride composite, ablative and insulative properties, 17922
  standard evaluation procedures, 6331
Ablation:
  heat shield, measurements using radioisotope techniques, 7852
  materials, coatings for structures in region of separated flow, performance, 1261
  meteors entering earth's atmosphere, boundary shock wave occurrence, 4941
  nylon grain size effect on phenolic nylon, 13810
  steady-state, of plastic materials, effect of diffusion-controlled char oxidation, analysis, 13847
Ablators:
  effect of thermal property variations on performance of charring ablator, 12359
  heat-shield materials, evaluation at various heat-transfer rates and dynamic pressures, 17914
Ables, Jackson H., jr.:
  filling and emptying systems—
    Canneiton main lock, Ohio River, etc., 7336
    Millers Ferry and Jones Bluff Locks, Alabama River, Ala., 10444
Abort:
  Apollo launch at high altitude, manually controlled, 11060
  lunar mission, from midcourse region, manual guidance, 11051
  safe, altitude and descent rate combinations during terminal phase of lunar landing, 13830
Abrahams, John H., jr., preparation of soil samples, laboratory techniques, 15277
Abrahamsen, Martin A.:
  agricultural cooperation, pioneer to modern, 14591
  merging cooperatives, 13304
Abramson, H. Norman, nonlinear lateral sloshing in rigid containers, 4830
Abrasion, surface, in ice crystals, application of thermal etching to study of, 1636
Abrasives:
  census of manufactures, 1963, industry report, 5445
  Federal item identification guides for supply cataloging, supplements, 2938
Absenteeism:
  absences of trainees enrolled in institutional programs, GAO report, 8993
  women, 1565

Absorbers, synchronous gyroscopic vibration, analytical research, 4806
Absorption:
  energy, concepts of multiple-impact study, errata, 1179
  high frequency ultrasonic vibrations in binary alcohol-water mixtures, 13518
  use of silver oxide as regenerative carbon dioxide sorber, 10962
  zonal and discrete, in X-ray spectra of atoms in polar crystals, USSR study, 1050
  see also Atomic absorption.
Absorption coefficients:
  optical, of fused silica in wavelength range 0.17 to 3.5 microns from room temperature to 980° C, 6440
  seismic waves, dependence on frequency, 16444
  wavelengths less than 3000 Å, 4826
Abstracting, cooperation, etc., among information systems, literature review, 11091
Abstracts, *see* names of departments, bureaus, etc., issuing abstracts—*also* subjects.
Abstracts journal, cybernetics (USSR periodical):
  excerpts, translations, 10732
Acacia koa, *see* Koa.
Academic awards, *see* Rewards (prizes, etc.).
Academic degrees, *see* Degrees (colleges, universities, etc.).
Academy of Agricultural Science, Bulgaria, decisions of general assembly, 17783
Academy of Medical Sciences, USSR:
  elections, 6184
  Uzbek Institute of Regional Medicine, scientific session, 6156
  vestnik (periodicals), 3682
Academy of Rumanian Socialist Republic, 1966 general meeting, 10780
Academy of Sciences, Belorussian SSR:
  annual general meeting, 16419
  Biological Sciences Department, scientists, activities, 4617
Academy of Sciences, Bulgaria:
  candidates for academicians and corresponding members, 12144
  proceedings, 16465
Academy of Sciences, Hungary:
  academic awards and degrees, directive, 16481
  activities—
    corporate bodies, 14835
    corporate organs, 13576
    organizational changes, 2194
    organs and new Hungarian doctors and candidates of sciences, 9138
  awards, 6169
  corporate organs after 1965 general assembly, 6208
  Department of Technical Sciences, report, 10707
  international relations resolution, 13547
  Mathematics and Physics Department, report of departmental leadership, 9169
  recent activities, 14859
  reform of economic guidance system debates, 13577
  regulation of research sites receiving support, 4606
  Research Institute of Experimental Medicine, 10764
Academy of Sciences, Kazakh SSR:
  Biological Sciences Department, scientific activity of institutions, 14923
  elects new vice-president, 7584
Academy of Sciences, Rumania, achievements, 17786
Academy of Sciences, Slovakia, membership of Slovak group in Czechoslovak Chemical Society, 2261
Academy of Sciences, Turkmen SSR, annual meeting, 14894
Academy of Sciences, Ukrainian SSR:
  cybernetics, research, USSR, 7632
  Donetsk Botanical Garden, construction, 1046
  general meeting, 12166
  news, 994
Academy of Sciences, USSR:
  Azerbaydzhan scientists elected, 17795
  Department of Technical Sciences, technical cybernetics, news, 1035, 2221, 6213, 10811
  general meetings, 6236, 16447
  herald, articles, 2273, 9117
  news, 7549
  recent activities, 944
  recent developments, 6210
  seagoing research vessels, 6165
  vestnik, translations, 12173, 14792, 14935
Acceleration:
  airplane, effects on sonic-boom ground pressure patterns, 15152
  angular, switching mechanism for sensing, 9470
  ascent and acceleration change in oxygen pressure in heart muscle, USSR study, 1027
  chronic, artificial alterations in weight, 9415
  compensated pressure transducer has fast response, 13788
  electrode phenomena in high energy density discharges as applied to plasma acceleration problems, 12266
  pulse, nitrous exchange in brain of rats during action of, USSR study, 16421
  sustained, human response, 10978
Accelerators:
  coaxial Hall current, at moderate pressures, 16648
  electromagnetic, space propulsion, 7853
  electron, explosion and fire, Cambridge, Mass., July 5, 1965, investigation, report, 6865
  Emperor Tandem, dedication (remarks), 15541
  hypervelocity, dust particle injector provides high charge-to-mass ratio, 13782
  low density Hall current ion accelerator, 6435
  MHD, segmented electrode increases operating pressure, 1231
  particle, Rumanian inventions, 10805
  radiation dosimetry and experience, AEC symposium, proceedings, 12674
  see also Cyclotrons.
Accelerometers:
  and cable connectors, tool enables proper mating, 9498
  damping technique gives flat frequency response, 13732
  earth's field static calibrator, 5011
  miniature servo, force-balanced, 1216
  to measure deflection in sensing rings, 9456
Access to airports, selected references, 17645
Accessories (dress), *see* Clothing.
Accident insurance:
  credit, for student loans, increase maximum amount allowable in D.C.—
    law, 17108
    report, 15852
Accident Investigation Office, establish, reports, 11634, 12973
Accidents:
  construction fatalities for analysis, 10850
  incidents involving AEC shipments of radioactive material, 1963–64 summary, 9927
  industrial—
    accidents in USAEC facilities, 1963–64, summary, 5406
    hazards, publications, price list, 7986
  injury control programs in local health department, guide to development, 1419
  longshoring, 1964–65, analysis of injuries, 17806

Accidents—Continued
prevention, PACAF basic bibliographies, 11377
shipyard, analysis of injuries, 13590
see also Aircraft accidents—Injuries—Mine accidents—Motor vehicle accidents—Railroad accidents.
Acclimatization:
fish and food organisms in seas of USSR, 2223
human, USSR studies, 12151
physiological principles of conditioning of human organism, USSR study, 10810
Accountants:
certified public, regulation in D.C., hearing, 5687
CPA laws and regulations, provisions, 6843
District of Columbia certified public accountancy act of 1966—
law, 15751
reports, 8641, 17485
employment outlook, 10859
enrollment requirements before IRS, eliminate—
law, 433
report, 11763
examination announcement, 17036
amendments, 3967, 8388
pay, survey, 2303
public, audit of banks, analysis, 10233
Accounting, *see* Accounts and accounting.
Accounting machines:
census of manufactures, 1963, industry report, 5450
current industrial reports, 5483
Accounts and accounting:
accounting—
and finance manuals, DSA, 4249, 7260, 13250–251, 17608
concepts and Federal tax system (remarks), 16876
series releases, SEC, 2637
acquired properties, manual, 4370
air carriers, certificated, uniform system, 3637
banks, prohibiting from performing professional accounting services, hearings, 17369
career opportunities, IRS, revenue agent, professional accounting, 4568
certificated air carriers, uniform system, 6948
code of Federal regulations, 5942
cooperative housing projects, uniform system of accounts, 2019
CPA laws and regulations, provisions, 6843
Federal agencies—
accounting, GAO guidance manuals, 803–804
adjustments between appropriations, authorize—
law, 15698
report, 11778
policy and procedures, GAO guidance manual, 3016
transportation, GAO guidance manual, 3015
financial administration, accounting and control of funds, NGB pamphlet, 12390
GAO review (periodical), 17705
internal cost accounting of industrial enterprise, Bulgarian study, 13582
joint financial management improvement program, annual report, 8981
nonappropriated funds, welfare fund, Air Force manual, 9856
personnel accounting, Army National Guard, change, 2456
professional careers, General Accounting Office, 17715
Public Roads Bureau, need for improvement in system, GAO report, 12000
Accounts and accounting—Continued
public schools, property accounting guide, implementing, 8842
publications, price list, 17993
small sawmills, cost-accounting system, 11991
systems, pipe line companies, 9060
telephone companies, uniform system of accounts, FCC rules and regulations, 2012, 2926
see also Auditing.
Accumulators, signal, USSR study, 16501
Acetic acid, determination of copper with disodium ethylenedinitrilo tetraacetate (EDTA), 17861
Acetylcholine:
esterase, from erythrocytes of cattle, isolation, purification, etc., USSR study, 2241
synthesis, pharmacological characteristics of hemicholinum as inhibitor, USSR study, 956
Acherman, Walter L., corrosion properties of molybdenum, tungsten, vanadium, and some vanadium alloys, 4796
Achievement, low achiever in mathematics, 648
Achievements of Rumanian Academy of Sciences, 17786
Achter, M. R., flexural fatigue machine for high-temperature operation at resonance in vacuum, 1368
Achtheres, *see* Copepods.
Acidophilous milk used in treatment of dysentery, USSR, 17751
Acids:
electrochemical analysis by emf, conductance, optical, and kinetic methods, 16717
mine water, application of saline water conversion processes, 16374
nonhazardous acid etches weld samples, 15108
vapors, determination in PPM range, 6546
Ackerberg, Robert C., interaction of 2-dimensional jet with parallel flow, 15522
Ackroyd, Margaret F., remarks, June 29, 1966, 17990
Acoma Pueblo:
land to be given in trust—
law, 5588
report, 4115
Acosta-Martinez, Virgilio, relief, 1908, 8541, 11536
Acoustics, *see* Noise—Noise suppressors—Sound.
ACR series, 16753
Acreage marketing guides, 589, 1952, 5827–29, 7969
Acrylonitrile, plastic drain, waste, and vent pipe and fittings, standard of trade, 1290
Acta geographica Sinica (Chinese periodical):
translations, 10830
Actinides, electrodeposition, 5394
L'action sociale dans un monde en pleine evolution, la place des affaires sociales dans le processus de developpement, 15426
Actions at law:
bonds or notes by local urban renewal or public housing agencies are incontestable in hands of bearer, opinion of Attorney General, 6248
criminal cases, contempt to publish information not properly admitted, hearings, 4225
establish statute of limitations for certain actions brought by Government—
hearing, 11670
law, 12830
reports, 10157, 16087
judgments for costs against U.S.—
hearing, 11670
law, 12832
reports, 10158, 13127

Actions at law—Continued
litigation releases, Securities and Exchange Commission, 3157
see also Appeals—Civil procedure—Habeas corpus.
Activated charcoal, *see* Charcoal.
Activation, *see* Heat of activation.
Activation analysis, *see* Radioactivation analysis.
Activities in science related to space, 15036
Activity programs, work and play, for head start child development centers, 4273
Actors, employment outlook, 9257
Acts of Congress, *see* Law.
Actuarial notes, 1462, 5140–41, 6603, 8022, 11226, 16829, 18098
Actuaries, employment outlook, 9251
Actuaries, American Academy of, *see* American Academy of Actuaries.
Actuaries Board, retirement and disability fund, 1964, report, 8504
Actuators:
compact, converts rotary to linear motion, 12307
three-position rocker switch, has positive centering, 2395
Acuity:
foveal, recovery following exposure to various intensities and durations of light, 13665
pure-tone, and intelligibility of everyday speech, 13667
visual, and control aspects of saccadic eye movements, 16594
Acute conditions, incidence and associated disability, United States, July 1964–June 1965, 6587
Adames, Juan I. T., testimony, hearings, 587, 5784
Adami, Lanford H., heats and free energies of formation of anhydrous carbonates of barium, strontium, and lead, 13698
Adams, A. N., observations made with 6-inch transit circle, 1949–56, of sun, etc., 6518
Adams, Don, higher educational reforms in Republic of Korea, 4306
Adams, Herman, relief, 17177
Adams, James J.:
critical tracking tasks for human pilot, 6430
human transfer functions in multi-axis and multi-loop control systems, 9512
Adams, James W., relief, 13097
Adams, John, *see* Adames, Juan I. T.
Adams, John G.:
remarks—
Nov. 19, 1965, 288
Apr. 29, 1966, 8381
May 20, 1966, 9982
Oct. 17, 1966, 15618
Adams, Ruth, America illustrated, 2676
Adapters:
bench vise, grips tubing securely and safely, 6382
prevents damage to tubing during high pressure tests, 13765
shoulder, steadies spot welding gun, 6402
Adaptive data compression for video signals, 9523
Addicott, W. O., late Pleistocene marine paleoecology and zoogeography in central California, 16361
Addicts, *see* Narcotic habit.
Addition, binary, simple circuit performs, 1230
Additives:
chemical, run-in protects gear surface, 6395
confectionery, amend food, drug, and cosmetic act—
law, 15702
report, 13123
dispersant, and cement, effect on hydraulic backfill, laboratory study, 16576
jet fuel anti-icing, effects on tank linings, 1369
Addresses (mail matter), *see* Mail matter.
Addresses, lectures, etc.:
Billings, John Shaw, centennial addresses, 13874
by—
Ackroyd, Margaret F., 17990
Adams, John G., 288, 8381, 9982, 15618
Andrews, Archie M., 10684–685
Baker, John A., 5288
Balderston, C. Canby, 732
Ball, George W., 4629
Baran, Saul, 10687
Barr, Joseph W., 1523, 5193, 6673, 6679, 9753, 12549, 14052, 15399–400, 16882, 16885–889
Barrett, Ashton C., 5938
Bechill, William D., 5
Belen, Frederick C., 2508
Bell, David E., 866, 9051, 10690
Bertsch, A. A., 5434
Bienstock, Herbert, 6271
Bird, Kermit, 4278
Blumenthal, W. Michael, 2573, 8035
Bolles, Edgar H., 14742
Boyd, Alan S., 348–350, 357–58, 1775, 1778, 4018–19, 4024–25, 10036, 12788–789
Breimyer, Harold F., 4233
Brenner, Edward J., 1393, 13913, 13915, 15256, 17983
Bridwell, Lowell K., 1776, 5556–57, 8437–40, 8443, 10039–41, 11524, 15654, 17060
Brimmer, Andrew F., 336, 362, 1769, 3998, 5554, 5563, 7420, 10513, 11947, 14637, 16281, 16826
Brown, Lester R., 9834
Bundy, William P., 8057
Carver, John A., 10670
Cass, Millard, 1076
Cassell, Frank H., 13289
Cavin, James P., 4288
Chadwick, Donald R., 1435
Chinitz, Benjamin, 5541, 10032, 14322
Ciardi, John, 2306
Clapp, Norman M., 8011
Clark, Kenneth B., 16854
Coker, Joseph D., 657–658, 660
Collins, James F., 4017
Collins, LeRoy, 337, 363, 4016, 4030, 5553, 5562, 6993–95, 8416–17, 8436, 10012–14, 11523, 14319
Colyar, A. B., 11194
Connor, John T., 329–335, 353–356, 359, 1777, 4021–23, 5543–45, 5558–60, 6997–99, 8421–24, 8429, 8441, 10016, 10044, 10046, 11509–510, 12794, 14320, 14328, 15641, 15655–656, 17053, 17061–62
Crafts, Edward C., 6557–58, 15254, 16773
Daane, J. Dewey, 727, 8924, 11951
Davis, W. True, 16883
Day, James V., 701
Deming, Frederick L., 1513–14, 6682, 9745, 12548
Di Luzio, Frank C., 7510, 13432
Donald, James R., 4289
Dryden, Hugh L., 1288
Dulcan, Edward S., 351, 4020
Fanning, John H., 1322
Faulkner, Rafford L., 8299, 14240
Fay, William T., 9966
Fazar, Willard, 15561
Ferguson, Francis, 2306
Finger, Harold B., 166
Flood, Daniel F., print additional copies, reports, 13004, 14462
Foley, Eugene P., 319–323, 1766–67, 5549, 5555, 8412–15, 8442, 10010–11, 12795, 15639–40
Fowler, E. Eugene, 163, 1515–22, 2615, 2617, 5195, 6676–78, 8104–6, 9744, 9749–52, 11300–303, 14053, 16884, 16890–891
Fox, Lawrence A., 9050

Addresses, lectures, etc.—Continued
by—continued
Frankel, Charles, 12524
Freedman, Alfred M., 16790
Freeman, Orville L., 31, 1603–5, 1607–8, 3738–40, 3753, 3768–69, 5280–82, 6777, 9804–10, 9836–39, 11345, 12613, 14120–129, 14134, 14151–158, 14160
Gilliland, Whitney, 15612
Godfrey, Horace D., 6738
Goldberg, Arthur J., 18118
Goldner, Lester, 13956
Goodwin, Robert C., 4331, 16244
Greenberg, Leon, 6272
Grogan, Paul J., 10022, 11530
Gulick, James W., 16549
Haddon, William, jr., 15660
Hanke, Byron R., 14631
Harllee, John, 700, 4378, 5939, 7371, 8902, 10476, 10905, 14633, 17654
Harvey, Thomas W., 7271, 10398
Hearn, George H., 702, 7369, 8901, 10477
Henning, John F., 4697
Hibbard, Walter R., jr., 4754, 6293, 6311, 9366
Hiemstra, Stephen J., 4291
Hollomon, J. Herbert, 4000, 4027, 4029, 5548, 8426–27, 10033, 11512, 15658–659, 17059
Holum, Kenneth, 2113
Hoover, J. Edgar, 7358
Horne, John E., 5933, 13318
Howe, Harold, II, 7314–15, 7317–18, 7323–24, 7326, 10422, 13281, 16228, 16238
Humphrey, Hubert H., 1970, 13996, 17733
Hurley, Ray, 3941
Johnson, Hugh A., 10417
Johnson, Nicholas, 1102–4, 4745–46, 6280, 9352–53, 10900–904
Johnson, U. Alexis, 8056
Johnson, Wilfrid E., 14241
Keppel, Francis, 4300, 4308, 4310, 4314, 4321, 5873, 7299, 7313, 8840–41, 8844, 8852–53
Keyserling, Mary D., 1551, 1554, 1560, 1566, 5259, 6698, 9768–69, 12571, 16911
Knapp, Joseph G., 5911
Krause, Frank W., 16986
Kromer, George W., 4290, 4292
Lamborn, Emiley M., 9203
Lattu, Onnie P., 1388, 6556, 11161
Lazorchick, Daniel C., 4580
Lesser, Arthur J., 277
Linder, Harold F., 10448
Lister, Ernest A., 11522
Lowenstein, Frank, 8173
McCulloch, Frank W., 1321
McGarry, Thomas F., 12492
MacKenzie, Vernon G., 1412
McNeil, Robert L., 8418, 10015
McQuade, Lawrence C., 8435, 10038, 11511, 12790
Maisel, Sherman J., 731, 2024, 5955, 16283
Martin, William M., jr., 728
Mathews, J. Chesley, 2306
Mehren, George L., 37, 3748, 3754, 9816, 9842
Meyers, Trienah, 1585, 1610–11, 3749, 6741
Miller, Marshall E., 4287
Minetti, G. Joseph, 15611
Mitchell, George W., 733, 2026, 4393, 5957–58, 7418, 10510–511, 16282, 16287
Moore, J. Cordell, 840, 6060–61, 7511, 13433, 14769
Morgan, Roy L., 324–328, 352, 1768, 1779, 5542, 6996, 8419–20, 8434, 10034–35, 10043, 11525, 12769, 12791–793
Addresses, lectures, etc.—Continued
by—continued
Morton, James G., 7012, 15653
Murphy, Charles S., 285–287, 1743, 3959, 5508, 6949–51, 8377, 8379, 9979, 11489, 15616–617
Murphy, Robert T., 3949, 8376, 11490, 14286
Nabrit, Samuel M., 16981
Nace, Raymond L., 14753
Nehmer, Stanley, 3999
Nelson, Robert A., 10042
O'Brien, Gerald D., 1389
O'Brien, Lawrence F., 1394, 2509, 5083–85, 8015, 11170–171, 13916–920, 15258, 16775–778
Oganovic, Nicholas J., 1759
Ogden, Daniel M., jr., 9601, 9603
Ordman, Arnold, 11119
Owens, James M., 15562
Palfrey, John G., 171, 5419, 5424
Paret, Peter, 14166
Pascal, Anthony H., 10020
Patterson, John S., 7370
Pavlov, S. P., 4685
Peterson, Esther, 1559, 2512, 2516, 5090, 11174, 17799
Pollack, Gerald A., 11531
President Johnson, 1397, 5152, 5599, 9721, 15261, 16843
President Truman, 5952
Randall, K. A., 14623
Robertson, J. L., 8927, 10509
Romm, Joseph, 14292
Roth, William M., 6619–20
Rowen, Henry S., 3866
Rusk, Dean, 1491, 2578, 9722, 11252
Sableski, Joseph J., 15274
Schmeltzer, Edward, 14634
Schneider, Lawrence A., 5859
Schnellbacher, E. E., 865, 6073, 7523, 7525, 10689, 14780
Schnittker, John A., 3741, 3747, 5289, 5296–97, 6778, 6782
Seaborg, Glenn T., 162, 164, 168–170, 3856, 3858, 3860, 5418, 5423, 5425–26, 8298, 8300, 8305, 9931–32, 9934–35, 12687, 14233, 14242, 15540–545, 16977, 16979–980
Seamans, Robert C., jr., 12379
Shaw, William H., 11626, 14321, 15642, 15644, 15652, 15657
Shepardson, Chas. N., 4390
Sisco, Joseph J., 11259
Smith, A. Howard, 15635
Smith, Edward K., 338
Solomon, Anthony M., 5151
Spender, Stephen, 17821
Stewart, William H., 1418, 1432, 15271
Surrey, Stanley S., 1524, 8099, 11294, 15392, 16876
Swartout, John A., 167
Tape, Gerald F., 6872, 8303, 9933
Taylor, Maxwell D., 9722
Thompson, Floyd L., 9551
Tibbitts, Clark, 1572
Trowbridge, Alexander B., 360–361, 1780, 5540, 8411
Trued, Merlyn N., 8103
Udall, Stewart L., 845, 6062, 10665, 10667–669, 13429, 13434, 14768
Ward, Edward J., 10037
Weaver, George L–P, 7643, 13587, 16511–512
Wharton, Howard J., 5203
White, Robert M., 5892
Whitton, Rex M., 2547, 8006, 15316, 16814
Wilkins, Roger W., 4031–32
Williams, James D., 9622
Williams, Thomas F., 15270
Winston, Ellen, 8113, 11318
Wirtz, Marvin, 9202

Addresses, lectures, etc.—Continued
by—continued
Wirtz, W. Willard, 1075, 1077–78, 4694, 6253, 7649, 9193, 9195–96, 10838–839, 10843, 12200
Zagoria, Sam, 1320, 5036, 6494, 7933, 9562, 11115, 11118, 17954
FMC SP series, 700–702, 4378, 5938–39, 7369–71, 8901–2, 10476–477, 14633–634, 17654
Harmon memorial lectures in military history (series), 14166
inaugural addresses, George Washington to Lyndon B. Johnson, 456
lecture preparation guide, instructive communication, 16803
MA SP series, 1102–3, 4745–46, 6280, 9352–53, 10900–905, 16549
National Foreign Policy Conference for Educators, excerpts from addresses, 16855
North American Fisheries Conferences, 17674
public papers of Presidents of United States, announcement and order form, 1402
USSR, speeches at 23d Party Congress, 10729
White House Conference to Fulfill these Rights, 12567
works for oral delivery, copyrighted, 596, 11838
Addressing method using concise word codes as memory addresses, USSR, 878
Adelberger, Howard H., relief, 12882
Adelstein, S.J., cell proliferation kinetics in tongue and intestinal epithelia of hibernating dormice (Glis glis), 9859
Aden:
background notes, 12518
Eastern Aden Protectorate geology, 17723
Adenosine triphosphate, detection instrument, design and fabrication, 7733
Adhesion, ice to hydrophobic surfaces, 15252
Adhesive-backed terminal board eliminates mounting screws, 2400
Adhesive restorative dental materials:
literature survey of inorganic polymers, 2498
proceedings of workshop, 15269
requirements and test methods, 7927
Adhesives:
cryogenic application, cures at room temperature, 9485
dot patterns provide reproducible flaw areas for study of adhesive bonds, 15098
Federal item identification guides for supply cataloging supplements, 2937
testing of adhesive bonds, ultrasonic emission method, 13776
Adjustable cutting guide aligns and positions stacks of material, 11004
Adjustment Board, National Railroad, *see* National Railroad Adjustment Board.
Adjutant General's Office:
Army Library—
selected current acquisitions, 3505
selected periodical literature, 3508
special bibliography, 12577
La Administracion de Bienestar y el auxilio, social en el mundo, 16902
Administration, *see* Administrative management.
L'Administration des Affaires Sociales et l'action sociale dans le monde, 16903
Administrative Conference of United States:
appropriations, 1967—
hearings, 7115, 10322
reports, 11625, 13122
Administrative management:
Air Force—
Cambridge Research Laboratory, research management functions, GAO report, 6026
industry data management symposium, Sept. 28–30, 1965, proceedings, 3791
ALO standard structure for managerial data, 5382
Army personnel system, utilize logical model to represent manpower supply and flow characteristics, and for reduction of turbulence, 3839
Army Supply and Maintenance Command project listing, 14221
business management in selected colleges and universities, 8837
career, National Institutes of Health, 15273
choosing form of business organization, administrative management course program, 2553
college and university business management guide, 1977
Commercial Fisheries Bureau, resources funds for general administrative expenses, violation of statutes by use of management and investigations of, GAO report, 12009
communication and control, administrative management course program, 5136
control of Nike-Hercules missile launching and handling rails, Army Missile Command, GAO report, 17707
cost, source of funds expended for public assistance payments, 5907
course for owners of smaller businesses, 14011
defense traffic management handbook, 607
dental administration, Navy manual—
change, 15245
chapter, planning, construction, and maintenance of facilities, 6530
Division of Hospitals, statistical summaries, 1417, 18002
elementary school programs for disadvantaged children, 16225
executive, philosophy, problems, practices, 12656
factors in job-satisfaction, spontaneous comments, analysis, 14192
Federal administrative and management examination positions, examination announcement, 1763
Federal occupational health units, guide, 12459
forecasts and appraisals for management evaluation, Manned Space Flight Office, 12285–286
Government supported research at universities, 11449
hospital central medical and surgical supply services, 15282
index to management issuances, NASA policy directives, NASA management instructions, 1178
management analysis in Army Dept., pamphlet, 6836
management and technical aid for displaced small businesses, 11218
management course program, topics, 2553, 5136–37, 6598–99
management intern program, Army Dept., 3825
manpower management, improvements, examples, 1864, 8677, 17391
Marine Corps procurement of equipment, etc., GAO report, 10619
mechanization of administrative work, USSR study, 983
medical administration, USSR study, 16469
medical care administration, research opportunities, 5118
Navy management review (periodical), 3254

Administrative management—Continued
Navy's limited duty officers qualification manual, 11150
needed staff for headstart child development centers, 4270
packaging administration, Army field manual, 8253
personnel, code of Federal regulations, 7407
personnel information bulletin of VA, 3320
personnel literature, 3321
personnel management—
pay, Feb.-Mar. 1965, survey, 2303
series, 3981
personnel methods series, 304–306
program management officer, developing management concept, 5116
public assistance administrative costs per casemonth, 10449
public management sources, 3429
publications of SBA, classification, 9642
safeguarding your business and management succession, administrative management course program, 5137
safety activities, management aspects, workshop proceedings, 8928
small business—
management aids for small manufacturers, annual compilation, 1456
management series, 6602
starting and managing series, 9645
sources of assistance and information, administrative management course program, 6599
staff development—
Family Services Bureau, 1964 report, 5901
public welfare programs progress report, 1965, HEW, 14585
State public assistance and child welfare plans under social security act, 5905
student services administration in higher education, 10431
system program management procedures, AFSC manual, 12624
systems engineering management procedures, AFSC manual, 6796
training opportunities in IRS administrative intern program, 2122
Treasury Department, progress in management improvement, report 1965, 2616
tribal funds of Navajo Indians, need for effective guidance, GAO report, 11999
unit personnel officer's guide, Army pamphlet, 9698
work simplification, ARS guide, 6708
see also Organization in industry.
Administrative Office of United States Courts, report, 9771
Administrative personnel, *see* Administrative management.
Administrative procedure:
act, amend, report, 11763
act, effectiveness, investigation, authorization, report, 4186
Government offices, investigation, report, 5782
Administrators:
Air Force Department, civilian career opportunities, 15485
head start child development centers, guidelines for selecting equipment and supplies, 4277
representatives, Federal aviation regulations, 14617
school, realistic approach to civil defense, handbook, 11492
see also Hospital administrators.
Admiralty, claims settlement, amend law, report, 1912
Adobe, building, 3757
Adolase, ascorbic acid protection against inactivation, 1625
Adolescents, *see* Youth
Adoption:
agency sponsored program for parents after adoption, 280
community workshop for adoptive parents, 280
placing children of minority groups, how one social agency is focusing effort and skill, 275
ADP, *see* Electronic data processing systems
ADP Management Training Center, management of automatic data processing in Federal Government, training programs, 1750
Adrenal glands, in presence of radiation injuries to organism, USSR studies, 4691
Adsorption:
cesium on—
fluorinated molybdenum, erected dipole model, 4961
insulators, 4810
charcoals, 8 available commercially, laboratory comparison, 17856
environmentally modulated, feasibility in demineralization of saline water, 4551
n-octadecylamine, n-octadecanoic acid, and n-octadecyl alcohol from nonaqueous solution onto hydrated and dehydrated metal oxide surfaces, 6540
properties, dependence on surface structure for body-centered-cubic substrates, 2426
rates, of methane on Pocahontas and Pittsburgh seam coals, 9373
surface active material at surface of seawater samples from Bay of Panama, 6544
see also Heat of adsorption.
Adult and Vocational Research Division, training, and experimental programs, 633
Adult education, *see* Education.
Adults:
blood glucose levels, 15309
brighter vistas, church programs for older adults, 5260
civil defense education, personal and family survival, teachers manual, 11884
hearing levels, by age and sex, U.S., 1960–62, 2544
oral hygiene, 12489
weight by height and age of adults, United States, 11199
Advanced Research Projects Agency, scientific information activities, 13890
Adverse action, law and regulations, annotated, 2946
Advertising:
advertising alert, 2643
corporations marketing food and kindred products, 1950–64, analysis of expenditures, 624
essential element of our economic success home and abroad (remarks), 15656
outdoor, along Federal-aid highways, control—
costs, 1967 estimate, instruction manual, 11204
report, 546
promotional activities of agricultural groups, 1590
role in national life and economy (address), 5543
tires, guides adopted by Federal Trade Commission, 14647
volume and expenditures, 1457
workers, employment outlook, 9207
Advisory Commission on Information:
annual report—
department edition, 5259
document edition, 5620
Advisory Commission on Intergovernmental Relations:
act establishing, amend, reports, 15920, 17550
appropriations, 1967—
hearings, 7115, 10322
law, 15699
report, 8598

Advisory Commission on Intergovernmental Relations—Continued
first 5 years, report, 8622
five-year record, future role, 5718
print as Senate document, report, 5760
press releases, 3340
State legislative program, 16916
unshackling local government, survey of proposals, report, 15843
Advisory Commission on International Educational and Cultural Affairs, report on treatment of foreign visitors, 7060
Advisory Committee on Health Education and Communications, report, 6575
Advisory Committee on Management of National Institutes of Health Research Contracts and Grants, *see* Secretary's Advisory Committee on Management of National Institutes of Health Research Contracts and Grants.
Advisory Committee on Older Americans, establish, report, 17460
Advisory Committee on the Arts, report on cultural presentations, USA, 18119
Advisory Committee on Voluntary Foreign Aid:
register of agencies, 6077, 10692
reports of American registered agencies, 7530, 6078
Advisory Corrections Council, create, hearings, 14429
Advisory Council of the President's Committee on Employment of the Handicapped, special report to the President, 7659
Advisory Council on Education of Disadvantaged Children, *see* National Advisory Council on Education of Disadvantaged Children.
Advisory Council on Elementary School Child Development:
establish—
hearings, 5689
report, 5676
Advisory Council on Historic Preservation, establish, report, 15892
Advisory Council on Medical, Dental, Optometric and Podiatric Education, *see* National Advisory Council on Medical, Dental, Optometric, and Podiatric Education.
Advisory Council on Public Welfare:
having the power, we have the duty, report, 12565
recommendations, summary, 18143
Advisory Council on State Departments of Education, annual report, 16234
Advisory Council on Status of Women, see Citizens' Advisory Council on Status of Women.
Advisory groups, Aug. 1, 1966, Vocational Rehabilitation Administration, directory, 14068
Advisory, monthly newsletter from Office of National Councils and Organizations to advisory councils, 13257
Advisory Panel on Postal Rates, report, 10260
AE–CL series, 2745
AEC, *see* Atomic Energy Commission.
Aerial mapping:
agreement with Brazil, 2592
agricultural resources, USSR study, 2206
radar landmass simulation, computer techniques, 9593
surface-fitting program for already-distributed data from earth sciences and remote sensing, 1182
three-photo aerotriangulation, 11504
see also Photogrammetry.
Aerial photogrammetry, *see* Photogrammetry.
Aerial photography:
aerial photo scale-protractor, description and use, 4445
aerial-photographic, topographic-geodetic and cartographic work of Soviet Union in Antarctica, 14866
Aerial photography—Continued
APT users guide, 1994
errata, 7341
Gemini left-hand window, effects on experiments requiring accuracy in sighting or resolution, 17927
interpretations for compilation of large-scale soil maps, USSR study, 1063
maps, status, 15439
photography in airborne geophysical surveying, USSR study, 13449
spectrozonal aerial photographs for topographic interpretation, USSR study, 14900
stand-volume tables for California timber, 10580
television cloud photgraphy, meteorological satellite data—
catalogue—
ESSA 1, 14580
TIROS VII, 1535, 8867
TIROS VIII, 5900, 14579
TIROS IX, 11902
use, in unified information system, 11201
uses of airphotos for rural and urban planning, 11348
see also Aerial mapping.
Aerial radiological measuring survey:
aeroradioactivity and surface geology—
Ohio and Indiana, 11418
Puerto Rico, 11419
San Francisco region, 11417
Albuquerque, N. Mex., area, 8279
Cincinnati area, 8280
District of Columbia area (ARMS–I), 9917
Aerial radiological monitoring systems, handbook, 15621
Aerial spraying, *see* Sprays and spraying.
Aerial surveys, waterfowl in eastern Canada, 10539
see also Radioactivity.
Aeroballistic launch vehicles, *see* Spacecraft.
Aerobee rockets, *see* Rockets.
Aerodontalgia under hyperbaric conditions, 14995
Aerodynamic heating:
heat shield, clamshell-type, motion on deployment in atmosphere, 7831
minimization of heat input for manned vehicles entering earth's atmosphere at hyperbolic speeds, 9544
Project Fire—
instrumentation, 17918
photographic summary, etc., 17913
supersonic tests, external insulation system for liquid-hydrogen tanks of boost vehicles, 7838
Aerodynamics:
bodies and delta-wing-body combinations at Mach 6.9, effect of body cross section and width-height ratio on performance, 11047
characteristics—
cone at Mach 20.3 and angles of attack to 110° in helium, 6420
spherically blunted cones at Mach numbers from 0.5 to 5.0, 2409
control of 5° semivertex cone, effect of body nose blunting, control planform area, and leading-edge bluntness, 12346
damping—
and oscillatory stability in pitch for model of typical subsonic jet-transport airplane, 4918
pitch and yaw of Gemini configurations, 7854
delta-wing-body combination, sonic-boom characteristics, 11075
dynamics of aircraft in unsteady flight, analytical study, 3837
flared bodies, hypersonic flow over at incidence, 4958
model for low-altitude rocket exhaust plume, 16762

Aerodynamics—Continued
Newtonian—
characteristics of blunted right elliptical cones, 13809
tangent ogive bodies of revolution, 7857
quasi-slender body theory for slowly oscillating bodies of revolution in supersonic flow, 11066
raked-off circular and elliptical cones at Mach number of 20 in helium, 9527
spinning body, approximation of reentry angles of attack from rate-gyro and accelerometer data, 12362
splitter plates for separation of twin inlets, 7892
supersonic aerodynamic characteristics of series of related bodies with cross-sectional ellipticity, 15157
tension shell shapes at Mach 3.0, 16690
three-dimensional flow of ideal gas past smooth bodies, 11083
transonic characteristics of—
bodies with cross-sectional ellipticity, 6421
tailless fixed-wing supersonic transport model, 7810
two-dimensional wedge and triangular planform wings, hypersonic laminar viscous interaction effects, 15153
wind tunnel measurements, FM telemetry and free-flight techniques, 6462
see also Aircraft—Airplanes—Boundary layer—Drag (aerodynamics)—Flow—Heat transfer—Load (mechanics)—Rockets—Spacecraft—Wings (aircraft).
Aeroelasticity, divergence in unguided launch vehicles, 7832
Aeroembolism, bubble theory of etiology of decompression sickness as related to high altitude exposure, 5326
Aeroionotherapy, experiment, and air contamination study, USSR, 897
Aerology:
aerometeorological research in Antarctica during IGY, USSR study, 982
polar regions, USSR study, 1029
Aeromedical reviews, 91–92, 5325–26, 6809, 14188–189
Aeronautical and Space Sciences Committee, Senate:
calendar, 3129
committee prints, 7200, 13189
hearings, 4208, 7198–99, 7201
investigations and studies, aeronautics and space activities, authorization, report, 4174
report, 11737
Aeronautical charts, *see* Maps and charts.
Aeronautical supplies:
aircraft type certificate data sheets and specifications, 2668
antifriction bearings, maintenance, handbook, 11157
Aeronautics:
activities of Federal departments, etc., investigation, authorization, report, 4174
aeronautical information publication, 6820
aerospace glossary, 9843
air commerce, Federal regulation (remarks), 286
air service, lease of equipment, agreement with Germany, Federal Republic, 6642
air traffic patterns for IFR and VFR aviation, 10454
air transport services, agreements with—
Japan, 15346
Mexico, 5167
Norway, 15365
air transportation service, progress (remarks), 9982
airman's information manual, 1628, 2670, 11385
Aeronautics—Continued
Army aviation—
company, field manual, 11398
digest, 3639
meteorology applicable, technical manual, 11404
training, prediction of success, 3843
aviation and its flight environment (address), 5892
aviation certificates of airworthiness for imported civil glider aircraft, agreement with Poland, 1499
aviation news (periodical), 2904
aviation personnel, problems, influence of tranquilizer on temperature regulation in man, 15556
aviation radio services, FCC rules and regulations 2923
chart updating manual, 2744
civil air regulations, special regulations, 3530
civil aviation—
accidents, summary reports (periodical), 3565
employment outlook, 9295
FAA historical fact book, 1926–63 chronology, 10458
publications, price list, 15266
USSR navigational aids, 13456
code of Federal regulations, 8907, 10487–488
communications and pilot services, ATS handbook, 3800, 12647
expanding air transportation (remarks), 8379
FAA statistical handbook of aviation, 2004
Federal aviation act of 1958—
amend—
hearings, 1862, 13199
law, 11556
reports, 10315, 11622, 14463, 16105
enforcement procedures, regulations, 13306
rule making procedures, FAA regulations, 16257
Federal aviation regulations, 686–693, 2005–9, 4354–60, 5916–22, 7350–56, 8875–88, 10459–468, 11909–913, 13306–310, 14599–617, 16257–265, 17646–648
status, 4362, 7357
general aviation accidents, small fixed-wing aircraft, briefs (periodical), 2711
international notams, 3079
key to aviation weather reports, 11316
memorandum for aviators, 3189
NASA operations, semi-annual report—
departmental edition, 1287
document edition, 467
naval aviation—
NROTC cruise manual, 11151
publications, price list, 15266
naval aviation news, 3246
naval aviation safety review, 2684
notice to aviators, 3278
Pacific airman's guide and chart supplement (periodical), 3306
policy planning for research and development, study, 13066
print as Senate document, report, 10288
private pilot's handbook of knowledge, 11983
project Ranger, general information, 1193
report of Committee on Aviation, National Citizens' Commission, 1544
research, investigation, expenses, report, 4108
speaking of space and aeronautics (series), 1288, 9551, 12379, 13851
supersonic precision aerial demonstration team, Air Force Thunderbirds flying North American F–100 Super Sabres, 6817

Aeronautics—Continued
United States activities, report 1965—
departmental edition, 5002
document edition, 4070
weather procedures, handbook, 102
changes, 8221, 14198
see also certain headings beginning Air.
Aeronautics and Space Administration, National, *see* National Aeronautics and Space Administration.
Aerophotography, *see* Aerial photography.
Aerosols:
AFA analytical filters, USSR study, 10754
dynamics in mine workings, USSR study, 10825
homophase, stability and its artificial regulation, USSR study, 2211
radioactive—
dispersion in stratosphere, USSR study, 7599
filter pack technique for classifying by particle size—
fission products, 1381
mathematical considerations, 1382
viral—
and immunization, USSR studies, 14891
determination of physical parameters, USSR study, 17764
Aerospace, *see* Outer space
Aerospace biology, *see* Biology
Aerospace engineers, employment outlook, 9236
Aerospace maintenance safety, 2644
Aerospace Medical Division, technical reports, 5299, 15481
Aerospace medicine, *see* Medicine
Aerospace Research Office:
OAR progress, 1965, report, 3788
OAR series, 3787–88, 12626
research opportunities, 5324
research resumes, 3787
research review (periodical), 3471
Aerospace safety (periodical), 2645
Aerospace science, *see* Science.
Aerospace vehicles, *see* Spacecraft
Aerotitis media, *see* Otitis media
Aerotriangulation, *see* Aerial mapping.
Aesthetics, application in industry, USSR study, 14802
AFCRL, *see* Air Force Cambridge Research Laboratories
AFDC, *see* Children—Families—Public assistance
Affens, W. A., flammability properties of hydrocarbon fuels, 5071
Afghanistan:
background notes, 18106
economy, basic data, 11518
mineral industry, minerals yearbook chapter, 4759
technical cooperation agreement, 5171
visit by Senate delegation, report, 5811
AFL–CIO, *see* American Federation of Labor and Congress of Industrial Organizations
AFOSR, *see* Air Force Office of Scientific Research
Africa:
African, Asian, and Latin American peoples tricontinental conference, staff study, 10358
African series, 8036, 16843
agricultural situation, 1965 review and 1966 outlook, 8834
contributions to hydrology of Africa and Mediterranean area (series), 16362
crude oils, analyses, 10910
East—
foreign trade regulations, 15646
market for U.S. products, 12059
government procurement practices in selected countries, 17058
health information for travel in Africa, 12470
inheritance comes to P.S. 83, 10425
labor 1960–64, bibliography, 6269
labor organizations, directories, 16384
labor union movement (paper), 4580

Africa—Continued
language, classification, Library of Congress, 4741
literature, classification, Library of Congress, 4741
market indicators, 15645
market profiles, 14323
minerals yearbook chapter, regional review, 9367
pattern of sovereignty, 6632
public health development trends, USSR study, 7555
social science research studies, list, 11250
southwest coast, sailing directions, change, 12403
study mission, reports, 7140, 10182
translations, 3594
United States and Africa, unity of purpose (address), 16843
west coast—
lights and fog signals, list, change, 5056, 7958, 13897
tide tables, 12765
see also South Africa.
African Unity, Organization of, *see* Organization of African Unity.
AFSC, *see* Air Force Systems Command.
Afterbodies, Apollo, heat transfer and pressure with and without ablation, 16683
Agaliidae, catalogue, 9792
Age:
age at first marriage, duration of marriage, etc., 1960 census of population, 11479
at menopause, 1960–62 survey, United States, 18080
discrimination prohibited under State laws, table, 9199
foreign stock by country of origin, 1960 census of population, 211
migration of population by age (series), 631, 7295
patterns in medical care, illness, and disability, United States, 12488
projections of white and nonwhite population to 1985 by age, 14275
records in National Archives, 7906
revised projection of population to 1985 by age, 6927
Age (law):
voting, projections of population, Nov. 1966 and 1968, 5488
Aged:
aging (periodical), 2646
FHA housing for the elderly, projects and people, 11924
films on aging, selected references, 5262
foster grandparent program, new role for older Americans, 14526
health insurance—
brief explanation, 9656
conditions for coverage of services of independent laboratories, 9652
conditions for participation—
hospitals, 5142
correction, 15326
extended care facilities, 8024
home health agencies, 8023
extend deadline for enrollment—
law, 8460
message from the President, 8500
reports, 8605, 8728
home health agency manual, 12509
hospital manual for billing under medicare, 12508
medicare, what you need to know, 9659
provider costs under medicare, reimbursement, 12507
reimbursement guidelines for hospitals, hearing, 11802
under social security—
physician reference guide, 11228
your medicare handbook, 11229, 12512
health insurance for the aged, HIM (series), 8023–24, 9652, 12507–509, 15326

Aged—Continued
homemaker services for older people, selected references, 5261
housing—
project, mortgage insurance—
Fort Worth, Tex., GAO report, 6021
Houston, Tex., GAO report, 6022
selected references, 5263
income assurance, issues and alternatives, 17153
income of older people, 1964, supplement, 2623
institutions—
aged and chronically ill, Apr.–June 1963, U.S., statistics, 1440
utilization, Apr.–June 1963, statistics, 6589
legislative and executive actions affecting senior citizens, 1965, 566
medical assistance—
State plans, characteristics under social security act, 11905
under Kerr-Mills act, 5902
medical care, social security amendments of 1965—
annotated text of health insurance provisions, 5792
law, print additional copies, report, 13005
Senate amendments, brief description, 1937
summary, 7209
medical quackery, 8946
medicare health benefits can help you if you are about 65, 16831
medicare, things to know, 6608
middle-aged and older people in American society (address), 1572
nation's nursing homes, conditions and problems, hearings, 565, 1926
needs for services revealed by operation Medicare Alert, hearing, 17563
new day for older American, Senior Citizens Month, guide to community action, 9617
nursing homes, etc., employees, 1964 statistics, 15310
older Americans—
facts about, 11336
progressing toward new day, 10655
United States, by counties, 1960 map, 272
older Americans act of 1965—
amend, hearings, 17589
grants to States for community planning, services, and training, 4
regulations for implementing, 1573
podiatrists' services, payment under supplementary medicare program, report, 17335
programs to help older persons, assistance to States, etc., report, 17460
rural community action programs can serve hard-to-reach older people, 8827
senior centers, national directory, 8123
services to elderly on public assistance—
hearings, 567
appendix, 7202
report, 7203
65 or over? medicare health benefits beginning July 1st, 8025
social security benefits at age 72—
law, 7032
law, explanation, 11799
law, summary, 7170
legislative history, 17399
report, 7086
Senate amendments, summary, 8687
social security, special benefits for people 72 or over, brief explanation, 1475, 14021
State aid under social security act, 8869
supplementary medical insurance, enrollment, 16829
Aged—Continued
tax consequences of contributions to needy older relatives—
hearing, 14469
report, 17534
team work can offer protection for elderly, investigate, stop, look, says Federal Trade Commission, 11958
volunteer services for older people, references, 3724
war on poverty as it affects older Americans—
hearings, 568, 8760
errata, 4209
report, 11780
print additional copies, report, 10289
welfare services, planning, papers, 11904
working with older people, practitioner and the elderly, practice guide, 15312
see also Aging.
Agena, *see* Spacecraft.
Agency for International Development, *see* International Development Agency.
Agents, *see* Foreign agents—Lawyers.
Agglomeration, urban agglomeration and its meaning for rural people, analysis, 13263
Aggregates:
coarse, grading fluctuations, effects on concrete quality, 7338
highway construction usage factors, 2546
Aging:
aging center in Sinai Hospital, 1429
Annual National Conference of State Executives on Aging, selected papers, 1542
are you planning on living rest of your life? plan for retirement, 1570
aviation personnel, long-term medical research, GAO review, 8996
careers, guide specifications for positions in aging at State and local levels, 1571
developments, 1965, congressional actions, report, 7183
facts on aging series, 2623
medical research on, better management needed, report, 15929
Nation's need for the aging, contributions older people can make (address), 5549
older Americans act, grants to public and private nonprofit agencies, etc., for research, demonstration, and training projects, 3
patient, disease detection in persons over 45, office evaluation, 16806
patterns for progress in, case study (series), 5260
selected references, 3724, 5261–63
see also Aged.
Aging Administration:
establish, report, 17460
health programs, law, compilation, 13049
new AOA, Administration on Aging, general information, 2
program (statement), 5
Aging population, *see* Aged.
Aging, President's Council on, *see* President's Council on Aging.
Aging, Special Committee on, Senate:
committee prints, 566, 5792, 7203
continuing authority, etc., report, 4204
hearings, 565, 567–568, 1926, 4209, 7202, 8760, 14469, 17563
reports, 7183, 11780, 17534
Agnew, Donald B., meatpackers' cost for fresh beef and pork, 625
AGO, *see* Adjutant General's Office.
Agostino, Rosa, relief, 16052
Agrarian reforms, *see* Land reforms.
Agreement on tariffs and trade, *see* General agreement on tariffs and trade.
Agreements (industrial), *see* Industrial agreements.
Agricultural chemicals, *see* Chemicals.

Agricultural chemistry, chemically modified oil products and industrial uses publications and patents, list, 9785
Agricultural commodities, *see* Agricultural products.
Agricultural conservation program:
background information, 6732
maps, 6719
statistical summary, 8140
summary by States, 1581
Agricultural credit:
Bankhead-Jones farm tenant act, amend—
hearings, 4118, 11638
report, 15916
code of Federal regulations, 8904
farm credit cooperatives, publications, 4349
farmers and their debts, role of credit in farm economy, 11862
Farmers Home Administration, procedures for determining whether loan applicants are unable to obtain financing from private or cooperative credit sources, need to strengthen, GAO report, 4500
merchant and dealer credit, data from 1960 sample survey, 8923
see also Loans.
Agricultural economics, *see* Agriculture.
Agricultural engineering:
Eastern Utilization Research and Development Division, engineering research, 25th anniversary review, 9788
scientific careers in Agricultural Research Service, 1592
Agricultural engineers, employment outlook, 9236
Agricultural experiment stations:
States—
funds for research, 5836
professional workers, 5286
see also names of particular stations, e.g. Alaska Agricultural Experiment Station.
Agricultural extension specialist, examination announcement, amdt., 15627
Agricultural finance, *see* Agriculture.
Agricultural insurance, crop insurance fieldman and supervisor, examination announcement, amdt., 15627
Agricultural labor, *see* Farm labor.
Agricultural laborers, *see* Farm labor.
Agricultural machinery, *see* Farm implements and machinery.
Agricultural market reporters, examination announcement, 15626
Agricultural marketing (periodical), 2648
Agricultural marketing agreement act, *see* Agriculturaal products.
Agricultural marketing specialist, examination announcement, 15626
Agricultural markets in change, 11863
Agricultural occupations, employment outlook, 9291
Agricultural outlook, *see* Agriculture.
Agricultural policy, *see* Agriculture.
Agricultural processing, first processors, economic emergency loans, hearing, 17355
Agricultural products.
acquisition and disposal by CCC of surplus farm products, 6722
affiliated produce warehouses, reducing operating costs, 5287
agricultural commodities agreement with—
Bolivia, 1497, 1502
Burma, 15370
Ceylon, 11273
Chile, 5168, 11275
China, 9732, 11269
Columbia, 1495
Congo (Leopoldville), 1506
Ethiopia, 11266
Ghana, 12537
Greece, 8070, 15363
Guinea, 2591, 11271
Iceland, 8084, 15374
India, 2583, 5165, 8069, 9735
Indonesia, 15361, 16860
Agricultural products—Continued
agricultural commodities agreement with—continued
Iran, 6648
Israel, 15364, 16858
Ivory Coast, 15368
Kenya, 1501, 6649, 8087
Kenya, Tanzania, Uganda, and East African Common Services Organization, 15357
Korea, Republic, 11274
Mali, 11262
Pakistan, 15358, 16866
Ryukyu Islands, 6653
Sierra Leone, 11272, 16859
Sudan, 11276
Tunisia, 6643, 15355
United Arab Republic, 11267–268
Vietnam, 1498, 1505, 5163, 8077, 8080, 11278, 12526, 15349
Yugoslavia, 6641, 8068, 8078–79, 15369
agricultural exports from temperate and tropical zones, changes in prices and foreign exchange earnings, 7293
agricultural marketing (periodical), 2648
agricultural prices (periodical), 2650
air shipments of agricultural commodities, recent trends and prospective developments, 7286
ASCS commodity offices, where they are, what they do, 6726
automatic pickup for bags, tags, and cartons in packaging and labeling, 6710
carload waybill statistics, 7532, 7535
CCC monthly sales list, 2733
commercial dollar sales of agricultural commodities to foreign countries purchasing same type commodities for foreign currencies under Public law 480, precautions taken for protection, Agriculture Dept., GAO review, 14737
display stands for farm produce, building plans, 11360
export program as it relates to grains and oilseeds (address), 9809
exports—
alltime record in 1964 by increased dollar sales, 628
fact sheet, 10415
Federal stockpile inventories, report, 2640
foreign agricultural trade, monthly, 2985
foreign trade—
commodities—
calendar year 1965, 13266
fiscal year 1964–65, 4294
countries—
calendar year 1965, 17618
fiscal year 1964–65, 11866
Ghana, supply and demand projections to 1975 with implications for U.S. exports, 7294
grader, examination announcement, amdt., 15627
handbook of agricultural charts, 16921
import and export, Secretary of Agriculture to report to Congress each year certain information, hearings, 16183
imports, fact sheet, 10415
Jamaica, Trinidad and Tobago, Leeward Islands, Windward Islands, Barbados, and British Guiana, demand, supply, and imports, projected levels to 1975, summary and evaluation, 11865
land improvement to obtain high and stable yields of crops, USSR study, 10812
Latin America, 20 countries, Jamaica, Trinidad and Tobago, indices, 7289
market development and promotion, workshop-seminar, 14536
market promotion activity of Foreign Agricultural Service, review, report, 17266
marketing agreement act of 1937—
amend—
hearing, 17564
law, 431
include certain fruits, hearing, 14406

Agricultural products—Continued
marketing bulletins, 6753, 14139
marketing farm products, recent developments and outlook, 4282
marketing research reports, 44–51, 1589–90, 3758–59, 6754–60, 8148, 9822, 11356–359, 12607–609, 14140–144, 15448–449, 16928–930
markets in change, 11863
orderly liquidation of stocks of agricultural commodities held by Commodity Credit Corporation and expansion of markets for surplus agricultural commodities, 3761
packaging produce at central warehouse, 1589
perishables, CCC shipments, reducing costs, GAO report, 13375
Peru, market and competitor for U.S. farm products, 13265
price supports, active and announced programs, 2638
prices, expressing congressional policy, report, 11770
prices, 1965 annual summary, 12541
producers—
authorizing associations, amend act, hearings, 13190
marketing act of 1966, hearings, 16168
production research reports, 3767, 9835, 11366–367, 14150, 15477
promote international trade, extend public law 480, etc.—
hearings, 11785
reports, 10175, 10219, 14467, 15927, 17338
publications, price list, 5100
purchase reports, 3434
reserve stocks, maintain, hearings, 8645, 11785
roadside stand, building plans, 15455
sale under Public law 480 to countries trading with North Vietnam—
hearings, 13152, 14471
law, 15735
report, 17216
sales reports, 3490
scholars discuss problems of price fixing, USSR study, 4653
storing processed commodities on daily-rate basis, Commodity Credit Corporation GAO report, 6015
tropical products, foreign agriculture circulars, 2987
vegetable products, trade and tariff information, summaries, 14045
world agricultural production and trade, statistical report, 3715
world agricultural situation, 1965 and 1966 outlook, 4286
see also Agricultural processing—Agriculture—Markets and marketing.
Agricultural Research Laboratory, University of Tennessee, research progress reports, 6858, 11431
Agricultural Research Service:
appropriations, 1967, Agriculture Dept., hearings, 8648, 11787
ARS series, 8–12, 1574–75, 3726–35, 5264–71, 6709–14, 8124–32, 9772–90, 11337–338, 12579–585, 14100–113, 15434
guide to work simplification, 6708
popular series publications, degree of need by State extension services, results of surveys, 9795
scientific careers—
agricultural engineering research, 1592
animal disease and parasite research, 53
soil and water conservation research, 1591
Agricultural science review, 2652
Agricultural situation, *see* Agriculture.
Agricultural situation (periodical), 2653
Agricultural Stabilization and Conservation Service:
administrative problems, hearings, 10226
appropriations, 1967, Agriculture Dept., hearings, 8648, 11787
ASCS background information BI series, 6720–37, 9800–2
commodity offices, where they are, what they do, 6726
dairy program, 6737
defense activities, 6729
disaster assistance available, 6734, 9802
employees, extend certain benefits to, hearing, 7233
general information, 6720, 9800
peanut programs, 6731
press releases, 3341
production adjustment programs, 6724
purchase reports, 3434
rice programs, 6736
sales reports, 3490
tobacco programs, 6730
wool and mohair programs, 6735
Agricultural statistics, *see* Agriculture.
Agricultural supplies, Federal item identification guides for supply cataloging, supplements, 2937
Agricultural trade development and assistance act of 1954:
activities under, 1965 annual report, 14383
amend, hearings, 7107, 8645
print additional copies, reports, 17278, 17544
commercial dollar sales of agricultural commodities to foreign countries purchasing same type commodities for foreign currencies under Public law 480, precautions taken for protection, Agriculture Dept., GAO review, 14737
expedited signing of agreements under title 1, State Dept., Agency for International Development, Agriculture Dept., GAO review, 8995
extend, etc.—
hearings, 11785
reports, 10175, 10219, 14467, 15927, 17338
food for freedom act, achievements under Public Law 480 (address), 9810
food for peace, newsletter about activities under Public Law 480, 2983
Library of Congress Public law 480 project—
accessions list—
India, 3059
Indonesia, 3062
Israel, 3093
Middle East, 3195, 4742
Nepal, 9347
Pakistan, 3311
American Book Procurement Centers, Karachi and Dacca, annual list of serials, 17820
newsletter, 3148
ocean transportation costs of donated surplus agricultural commodities, under titles 2 and 3, GAO report, 7472
sale of agricultural commodities to nations trading with North Vietnam—
hearings, 13152, 14471
law, 15735
report, 17216
Agricultural workers, *see* Farm labor.
Agriculture:
Africa and west Asia situation, 1965 review and 1966 outlook, 8834
agricultural act of 1949, amend—
hearings, 8647, 15951
laws, 423, 11560
reports, 1829, 11618, 17208
agricultural adjustment act, amend—
laws, 423, 11580
reports, 1829, 10222, 11765
agricultural/biological subject category list, 7905

Agriculture—Continued
agricultural cooperation, pioneer to modern, 14591
agricultural development, role of Inter-American Development Bank, hearing, 17366
agricultural economic reports, 5863–64, 10408–411, 11861–863, 13261–263, 16224, 17615–616
agricultural economics periodic reports, list, 3765
agricultural economics research (periodical), 2647
agricultural economies of dependent territories in Western Hemisphere and Puerto Rico, 4285
agricultural exemption for-hire motor carriers comparison with regulated motor carriers, 16929
agricultural marketing agreement act, amend, hearings, 5793
agricultural outlook digest, 2649
agricultural policy (address), 3741
agricultural prices (periodical), 2650
agricultural raw materials for industrial use, 8124
agricultural research (periodical), 2651
index, v. 4–6, 1955–58, 6
agricultural science review, 2652
agricultural situation (periodical), 2653
Agricultural Stabilization and Conservation Service programs important to farm economy (remarks), 6738
agriculture handbooks, 28–29, 3743–45, 5283–86, 8142–43, 9811–14, 11346–348, 12592–596, 14130–113, 15440, 16919–921
agriculture information bulletins, 30, 1582, 3746, 5287, 6740, 8144, 9815, 11349, 12597–598, 14133, 15441, 16922
agronomic studies of phormium in western Oregon, 14150
air pollution as related to agricultural development (paper), 13956
aircraft operations, Federal aviation regulations, 10465–467, 17648
American responsibility for world progress in war on hunger (address), 9807
balance sheet, 15441
bibliographies and lists available, 15204
bibliography, 2704
Bulgaria's agricultural economy in brief, 627
census, 1964, preliminary reports, 2736
census publications, price list, 5101
century in charts and tables, 12596
changes in 26 developing nations, 630
changing conditions (address), 5281
child labor, requirements of fair labor standards act, 11309
Chinese prior to 1949, publications, list, 17935
classification, Library of Congress, 1100
code of Federal regulations, 7385–92, 5943–44, 8905–6, 10483–484, 11931
coming decade in agriculture (address), 31
Communist China—
agricultural regions in mixed agro-pastoral realm of Kansu and Tsinghai, preliminary research, 12117
translations, 3595
Cyprus' agricultural economy in brief, 14544
decisions, 2654
East European, translations, 3601
electrical load growth, mathematical equations to determine need, USSR study, 7613
Europe and Soviet Union situation, mid-year review, 14545
European, agricultural guidance and guarantee fund, 11864
extension work laws, compilation, 12847
Agriculture—Continued
Far East—
and Oceania situation, midyear review, 14546
mainland China, Oceania agricultural situation, 7291
farm legislation, 1933–62, price support directed or authorized, 6727
finance outlook, 620
finance review, supplement, 5665
Finland, agricultural economy, 17617
food and agriculture, a look ahead, statistical supplement, 7296
food and agriculture act of 1965—
law, 423
new, flexible, versatile food and farm bill for rural America (remarks), 5297
questions and answers relating to consumers, 86
food costs, farm prices, compilation, 13012, 15954
foreign agricultural economic reports, 630, 4286, 7293–94
Foreign Agricultural Service, miscellaneous FAS–M series, 2054–55, 4432, 5970, 8948, 10551, 11989, 13352–354, 16319, 17680
foreign agriculture (periodical), 2986
foreign agriculture circulars, 2987
foreign agriculture economics, 626–627
foreign agriculture publications, price list, 5100
foreign agriculture reports, 8950, 13355
foreign aid program for 1967, new initiatives, 9053
front and center (address), 14128
full parity of income—
adequate size family farming operation (statement), 14158
farming operations (address), 14122
future international meetings, world list, 3716
handbook of agricultural charts, 16921
improving production and progress in developing countries (address), 11345
increasing agricultural production in developing nations (remarks), 14153
information staffs in State land-grant colleges and universities, 5926
international agricultural development, monthly newsletter to cooperators, 3073
Japan, agricultural statistics, collection, 18128
Jordan's agricultural economy in brief, 8831
key element in securing better, peaceful lives for people everywhere (address), 9805
Libya's agricultural economy in brief, 8832
liming soils, aid to better farming, 15442
losses, errata, 9812
marketing challenge (address), 9816
mechanizing, scientific research, 10781
miscellaneous, hearings, 4118
national economic situation and outlook for 1966 (talk), 4288
North American, plant pests of importance, index, 11346
producers associations, unfair practices affecting, hearings, 13190, 16168
production adjustment, ASCS programs, 6724
production indices, Asia and Oceania, 5868
program in rural community action, 10399
programs, farmer committee administration, 6725
promotional activities of agricultural groups, 1590
proposals in agricultural policy and implications to Marketing Divisions of State Departments of Agriculture (statement), 4233

Agriculture—Continued
research—
current tasks, Rumanian study, 12118
proposed reductions, hearings, 4120
symposium, 15480
resources, aerial methods in mapping, USSR study, 2206
scientific cultivation of agricultural plants, Rumanian study, 14917
scientific symposium on toxicology and hygiene of toxic chemicals used in agriculture, USSR study, 967
significant progress since 1960, report and review statement, 14154–157
State departments, 1965 directory, 590
statistical summary, 3539
statistics, 3742
story of progress (remarks), 3747
survey, data from 1960 sample, merchant and dealer credit, 8923
Tennessee Valley Authority, 1965 development, 6670
toxic chemicals used in Soviet agriculture, 2229
United Arab Republic development, Soviet review, 16416
United States, background facts, 6752
USSR—
agricultural science developments, 6191
and Eastern Europe agricultural situation, 7290
new directions in Soviet economy, 12845
translations, 3612
vocational and technical education, objectives, 4315
water management in India, 10683
West Asia, 5867
Western Europe, 1965 situation, 1965 review and 1966 outlook, 8833
Western Hemisphere, situation, 1965 review and 1966 outlook, 8835
world agricultural production and trade, statistical report, 3715
release date announcement, 4433
World Farm Center, endorse concept, report, 17285
world situation, 1965 and 1966 outlook, 4286
yearbook, 1966—
departmental edition, 16940
document edition, 17160
see also Farmers cooperative organizations—Farms—*also* headings beginning Agricultural—Farm.
Agriculture and Forestry Committee, Senate:
calendar, 3130
hearings, 4210, 5793–95, 8761–62, 11784–786, 13190–191, 14505, 16168–169, 17564–565
reports, 566, 1909, 8737–38, 8740, 11765–766, 11768, 11770, 13133, 13146, 14467, 16152–153, 17462–463, 17557–558
Agriculture Committee, House:
calendar, 3111
committee prints, 5680, 7109–10, 13012, 14407, 15954
hearings, 4117–19, 7106–8, 8645–47, 10226-227, 11635–640, 13009–11, 14403–406, 15951–953, 17354–356
investigations and studies—
authorization, reports, 8636, 12912
expenses, report, 4102
reports, 495, 1829, 7080, 8594, 8604, 10167, 10172, 10175, 10221–222, 12918, 12942, 12983, 12985, 14398, 15912, 15916, 17183, 17206–208, 17231, 17270, 17281, 17283, 17285, 17315
Agriculture Department:
Alaska Agricultural Experiment Station, transfer to University of Alaska, report, 17462
appropriations, 1966—
law, 418
report, 498
Agriculture Department—Continued
appropriations, 1967—
amendment, 13068
hearings, 7112, 8648, 11787, 14471
law, 15735
reports, 8614, 13152, 17216
ARS–USDA popular series publications, degree of need by State extension Service, 9795
beef carcass evaluation service, 13232
budget, separate accounting for various kinds of programs—
hearing, 17565
report, 17558
commodity distribution program, 15470
communicating range of its programs, etc., to public (address), 1610
consumer expenditure survey reports, 25–26, 1577–79, 5277, 8718, 8139, 9796–99, 11342–343, 12588–90, 14117–118, 15438
cooperative State Federal nutrition program, establish, hearings, 13010
cost reduction program (remarks), 9837
expedited signing of agreements under title 1 of agricultural trade development and assistance act of 1954, GAO review, 8995
field staff, Foreign Service list, 2992
films for television, 9823
in house of science there are many mansions (address), 3754
institutional meat purchase specifications approved—
fresh beef, 17600
fresh pork, 7242
portion-cut meat products, 4232
interest in bargaining cooperatives (remarks), 5289
land exchanges, cash equalization, hearing, 11640
leaflets, 41–43, 1587–88, 3755–57, 5292, 6750–52, 8147, 9821, 11354–355, 12604–606, 15446–447, 16926–927
marketing bulletins, 6753, 14139
marketing research reports, 44–51, 1589–90, 3758–59, 6754–60, 8148, 9822, 11356–359, 12607–609, 14140–144, 15448–449, 16928–930
meat inspection procedures manual, 7244
meat inspection regulations, 1955, 16203
milk and school lunch special programs, administration, review, hearing, 7106
miscellaneous publications, 52–57, 1591–95, 3760, 5293–94, 6761, 8149–51, 9823–24, 11360–362, 12610, 14145–146, 15450–456, 16931–934
ocean transportation costs for surplus agricultural commodities donated under titles 2 and 3, agricultural trade development and assistance act of 1954, GAO report, 7472
opportunities for doctors of veterinary medicine, 14145
outdoor recreation for fun and profit, USDA helps expand, 16939
PA [program aid] series, 58–63, 1596–1602, 3762–64, 5295, 6762–75, 8152–65, 9826–32, 11365, 12611–612, 14147–149, 15457–460, 16935–939
policies, etc., applied in evaluating foreign source components and barter bids for undersea cable communications system, GAO report, 4506
precautions taken to protect dollar sales of agricultural commodities to foreign countries purchasing same type commodities for foreign currencies under Public law 480, GOA review, 14737
press releases, 3342
production research reports, 3767, 9835, 11366–367, 14150, 15477
programs and services, you too can get help, 1601
programs for expanding rural community leadership (remarks), 5296

239–221—67—No. 863——8

Agriculture Department—Continued
publications and motion pictures, bimonthly list, 2706
publications available, list, 6054
registered agricultural pesticide chemicals, summary of uses, suppliment, 5276
regulatory and enforcement activities relating to small business, hearings, 15990
research, proposed reductions, hearings, 4120
research roundup, 3766
role in resource conservation, 15460
screw-worm eradication in Mexico, authorize Secretary of Agriculture to cooperate with Mexican Government—
hearing, 16169
law, 15711
reports, 10172, 13133
service, USDA's report to consumers (periodical), 3514
services, consumer's guide, 15451
South Building, etc., safety conditions in storage areas, GAO review, 8999
statistical bulletins, 64–66, 3771, 6779–81, 8167–68, 9840–41, 11368, 12614–615, 14161, 15748–749, 16941
technical bulletins, 67, 1609, 3772, 5298, 6783, 8169–72, 11369, 14162–164, 16942–943
USDA employee newsletter, 3655
USDA grades, how to use in buying food, 16936
water research laboratory, establishment at Durant, Okla. (remarks), 3769
what it can do when natural disaster strikes, 8154
year-round fun on farm and forest provided, publications list, 6775
Agrippa, AIC 60 D, lunar chart, 88
Agropyron spicatum, *see* Wheatgrasses.
Aguilana, Margarita L., relief, 16026
Ahnfeldt, Arnold L., radiology in World War II, 16969
Ai Ja Kim, *see* Ast, Kathryn C.
AIAA, *see* American Institute of Aeronautics and Astronautics
AIB series, 30, 1582, 3746, 5287, 6740, 8144, 9815, 11349, 12597–598, 14133, 15441, 16922
AID, *see* International Development Agency.
Aid to families with dependent children, *see* Children—Families—Public assistance
Aids to navigation, *see* Navigation
Air:
brazing retort manifold design concept may minimize air contamination, 15101
elimination of nitrogen and its replacement by helium, analysis of effect on chick embryos, 978
helicopter—induced air exchange over Thule AB, Greenland, dissipation of warm fog, experiments, 118
injection through slots and porous surfaces on flat-plate, effect on turbulent skin friction at Mach 3, 7846
oxygen-enriched, methane products burned in thermodynamic, transport and flow properties, 17891
radiant energy transfer measurements, 16601
radiation tables, spectral distribution functions for molecular band systems, 15060
surcharge effects on bearing capacity of soft cohesive soils, 8863
thermally ionized, electron attachment to fluorine in, 12274
see also Air pollution—Atmosphere—Atmospheric pressure—Compressed air.
Air almanacs, *see* Almanacs.
Air bases, technical inspection and control group at field airbase, USSR study, 12167
Air blasts:
biological tolerance, and related biomedical criteria, 144
Isthmian Canal studies, safety evaluation, 155
Air carriers:
accidents—
involving in-flight turbulence, 1960–63, study, 1742
statistical review and resume, 15614
air transport of California strawberries, factors affecting market quality, 1965 summer shipments, 12609
air travel to and in U.S. should be fostered (remarks), 285
airline industry, CAB point of view (remarks), 9979
airline statistics handbook, 6946
airline transport pilot, written examination guide, 8945
analytical charts and summaries, including supplemental air carrier statistics, 2655
cargo service development, etc. (remarks), 15618
certificated—
accounts and reports, uniform system, 3637, 6948
Alaska routes, map, 3961
local service, U.S. transportation system routes, map, 3960
route airport activity statistics, 8378, 12737
trunkline, U.S. transportation system routes, map, 3961
U.S. cargo, domestic, international, and overseas routes, map, 3962
certification and operations, Federal aviation regulations, change, 2007, 4357–58, 5920, 7355, 8884–85, 14609–610
Federal regulation (remarks), 286
financial statistics—
quarterly and 12-month, 2656
supplement, 2655
foreign air transportation, regulate rates, etc., hearings, 1862
foreign operations, Federal aviation regulations, changes, 4359, 10464
foreign, routes to U.S. authorized under permit—
Eastern Hemisphere countries, map, 3957
Western Hemisphere countries, map, 3958
freight transportation, development, etc. (address), 15611
improved service (remarks), 6951
improvement in air transportation system, etc. (remarks), 11489
international and overseas routes, map, 3952
labor dispute, settlement, hearings, 13225, 14428
local service industry review, hearings, 13201
local service, unit costs, 3954, 11487
corrections, 6947, 8380
multiplicity of special airline fares, whys and wherefores thereof (remarks), 8377
new flight equipment, carrier earnings, and public service (remarks), 287
passengers originating at cities on local-service routes, letters to mayors, 3578
regional air cargo workshop (remarks), 14286
scheduled, helicopters, certification and operations, Federal aviation regulations, changes, 2008, 14611–612
strike impact on defense posture, hearing, 14411
subsidy for United States certificated air carriers, 1744
supplemental—
inclusive tours, CAB special regulations, 8382, 14288
terms, conditions, and limitations of certificates to engage in air transportation, CAB economic regulations, 6945, 14284

Air carriers—Continued
temporary international route authority—
hearing, 13199
report, 14463
traffic statistics—
monthly and 12-month, 2657
supplement, 2655
transport services, agreements with—
Canada, 12528
Greece, 12532
transportation—
and constant economic improvement for public at lower prices (remarks), 15617
dangerous articles and magnetized materials, Federal aviation regulations, 691
change, 14608
international tourism and economic development (remarks), 15612
U.S.-international air transportation, strengthen, report, 16105
trunkline suspensions and deletions at points served by local service carriers, historical review, 1949–65, supplement, 9980
United States carriers, list, 5506, 14285
Air commerce, *see* Aeronautics.
Air conditioners, U.S. Air Conditioners and Dehumidifiers Show, July 22–30, 1965, U.S. Trade Center, Tokyo, Japan, registered visitors, list, 10021
Air conditioning:
equipment—
current industrial reports, 5472
Federal item identification guides for supply cataloging, supplements, 2935
industrial plant handbook, 17606
Air conditioning mechanics, *see* Mechanics (persons).
Air controlman, *see* Airport control tower operators.
Air crews, *see* Flight crews.
Air-cured tobacco, *see* Tobacco.
Air cushion vehicles, performance testing on Greenland ice cap, 9890
Air defense artillery engagement simulator (Nike Hercules), 5346
Air defense artillery weapons systems, qualification program, 12653
Air drop operations:
airdrop of supplies and equipment, 6845, 8266–68, 9909–10, 11407, 15517–518, 16965
loading environment and related requirements for platform rigged airdrop materiel, military standard, 7265
Air filters, *see* Filters and filtration.
Air Force:
Air Force/Industry data management symposium, Sept. 28–30, 1965, proceedings, 3791
Air Force writing (periodical), 2660
Air Staff, organization chart, 2662
airman, official journal, 2669
airman jobs, evaluation by 4 categories of raters, 16950
airman qualifying examinations—
comparison with differential aptitude tests, 15488
general aptitude index, use for estimating reading ability level, 8199
airmen, pay, allowances, retirement, etc., guide, 5311
civil engineer (periodical), 2658
civilian careers, from quadrangle to Pentagon, 6800
close air support in Vietnam—
hearing, 4121
report of Special Subcommittee on Tactical Air Support, 4122
decorations, service awards, etc., manual, 6792
depot, field and organizational maintenance, management, manual, 11370
Air Force—Continued
enlisted personnel, relief, report, 547
glaucoma policy, 6812
instructors' journal, 3067
job inventory and tryout of task rating factors, 6808
librarians, employment, 14173
libraries, buying calendar for annual publications, 3778
male nurses and medical specialists, Regular Air Force commissions, authorize—
law, 15776
reports, 12991, 17494
munitions, status, hearings, 10324
officer career attitudes, multiple linear regression analysis, 3790
officer evaluation system survey, attitudes and experience, 6805
officers—
grade requirements project, job descriptions, etc. 6806
leadership, 14167
pay, allowances, retirement, etc., guide, 3789
provide promotion opportunities—
law, 15773
reports, 15839, 15860, 16128
rater differences in effectiveness reports, preliminary investigation, 90
research opportunities, 5324
selection and classification tests, 1966, development, 15487
Pacific, PACAF basic bibliographies, 1619, 5319–22, 6804, 11377, 12627
personnel, retired, guide, 5308
planning and conducting on-the-job training, guide, manual, 15482
procurement instruction, revisions, 2659
propulsion units, logistics management, manual, 6791
publications, price list, 15266
reading improvement training, manual, 12616
recruiting service group enlistment objectives based on aptitude and interest characteristics, 6807
register—
departmental editions, 5309–10
document editions, 5602–3
report to our shareholders, 14197
research resumes, 3787
scientific research, 1959 bibliography, 3773
strategic, tactical, and defensive power, 101
tactical air operations and readiness hearings, 13196
Thunderbirds, world's first supersonic precision aerial demonstration team flying North American F–100 Super Sabres, 6817
see also Retired officers, etc.
Air Force Academy, Colo.:
assembly, 1966, final report, 14165
cadets, class of 1966, predicting 1st year achievement, 8198
cadets, incoming, periodontal status, 15493
candidates for appointment, selection, amend U.S. code—
law, 17137
reports, 12937, 16164
catalog, 8174
instruction, persons from countries friendly to U.S., permit, report, 17508
Air Force Cambridge Research Laboratories:
geophysics and space data bulletin, 3021
research management functions, survey, GAO report, 6026
Air Force Department:
AAL technical reports, 76–82, 3780–83, 5312–15, 6797–99, 9857–60
administrative military aircraft, savings through improved utilization of space, GAO report, 14731
AFOSR series, 3773

Air Force Department—Continued
Air Force manuals, 68–70, 1612–17, 3774–76, 5300–7, 6785–92, 8175–88, 9844–56, 11370–374, 12616–622, 14167–172, 15482–484, 16944–947
Air Force pamphlets, 71–75, 1618, 3777–79, 5308, 6793–95, 8189–92, 12623, 14173–177, 15485–486
aircraft engines, management in ground training programs, GAO follow-up review, 16343
AMD technical reports, 5299, 15481
appropriations, 1967, military construction, hearings, 11642
careers for civilians, scientists, engineers, etc., 15485
contractors, use of chemical milling inventions, GAO review, 7478
ESD technical documentary report, 3784
ESD technical reports, 83, 3785–86, 5317, 6801, 8193–94, 9861, 16949
lunar charts and mosaic series, 84–89, 6802, 8195–97, 14179–182, 14186–187
management of selected time compliance technical orders requiring modifications to engines for F–100 aircraft, GAO report, 14725
OAR series, 3787–88, 12626
per diem payments to military personnel, improved controls, GAO report, 13377
Personnel Research Laboratory, technical reports, 90, 3790, 6805–8, 8323, 8198–8200, 14183–184, 15487–488, 16950
pricing of recorders purchased from Midwestern Instruments, Inc., GAO report, 6020
procurement of thrust vector control nozzles for Minuteman missile program, GAO report, 17709
RADC technical report, 8201
rebuilding used motor vehicle tires, savings that can be attained, GAO report, 12008
recovery of needed parts from excess aircraft engines, GAO report, 10624
research management functions, survey, Air Force Cambridge Research Laboratories, GAO report, 6026
specialized transportation equipment, savings through buying rather than leasing, GAO report, 8989
supply management at Eastern Test Range—
hearings, 4123
subcommittee report, 5685
technical orders, 11375, 16948
Air Force Medical Service digest, 3638
Air Force Office of Scientific Research, AFOSR series, 3773
Air Force Reserve:
air reservist (periodical), 2661
officers, active duty retirement benefits, GAO report, 13378
Air Force supplies, *see* Military supplies.
Air Force Systems Command:
manuals, 6796, 12624
pamphlet, 14178
research and development, guide for design, conduct, and analysis of Air Force tests, pamphlet, 14178
system program management procedures, manual, 12624
systems engineering management procedures, manual, 6796
Air frames, *see* Airframes.
Air freight forwarders, *see* Freight forwarders.
Air gaps, efficiency of charges, USSR study, 6155
Air inlets (aircraft):
additive drag coefficient and mass-flow ratio utilizing right circular cones, 11061
open nose, semicircular, mass-flow rates and total-pressure recoveries, 7830
splitter plates for aerodynamic separation of twin inlets, 7892
Air layering, sugar maple, 4470
Air lines, *see* Air carriers.
Air lock, expandable, using elastic recovery principle, research, 4811
Air mail:
international, 11-cent postal card, 9615
overseas Armed Forces and other Government personnel mail—
hearings, 7157, 11827
report, 7094
overseas Armed Forces, provide better service, reports, 17284, 17475
Air mass, forest-fire danger as related to airmass in Ouachita Mountains, 4456
Air movement of Fleet Marine Force units, 13654
Air National Guard, air reservist (periodical), 2661
Air navigation:
navigational aids in Soviet civil aviation, 13456
navigator (periodical), 3252
non-Federal facilities, FAA regulations, 8888
TACAN systems course, electronics technician, class C, trainee's guide, 15249
VORTAC tone control equipment, maintenance, FAA handbook, 7349
see also Aeronautics.
Air pilots, *see* Aviators.
Air pollution:
acid vapor determination in PPM range, 6546
adequacy of technology for pollution abatement—
hearings, 17394
report, 13060
aeroionotherapy experiment, and air contamination study, USSR, 897
air pollution and industrial poisons, USSR studies, 898
air resource management—
concept, application in southwestern Ohio-northern Kentucky survey (talk), 9622
plan for Nashville metropolitan area, 6577
and oil industry (remarks), 7511
atmospheric emissions from coal combustion, inventory guide, 13961
automotive, clean air act, report of HEW to Congress, 7172
print as Senate document, report, 7190
automotive, semiannual report of HEW to Congress, print as Senate document, report, 13172
clean air act, amendments—
hearings, 13228, 15982
law, 396
description, 2107
reports, 11782, 15946, 17295
text, 13049
clubwomen accept the challenge (address), 15270
comparative method for studying costs, 15275
conservation report reflects national concern, 1411
control, programs—
appropriations, authorize—
hearings, 13228, 15982
reports, 11782, 15946, 17295
automobile crankcase ventilation systems, performance, 15293
pollution from Federal installations, Executive order, text, and standards, 11181
research, law, 396
staff study, print additional copies, report, 7195
environmental health series, 6577, 13961
films, 11180

Air pollution—Continued
forecasting potential, PHS advisory service, 11182
odor, community surveys and evaluation (paper), 15274
preserving our natural heritage, message from the President, 5612
problems, USSR studies, 7561
related to agricultural and industrial development (paper), 13956
Roosevelt Field, Nassau County, N.Y., Jan.–Feb. 1964, measurements, 7989
Soviet studies, 968
studies, progress report of Organic Chemistry Section, 1299, 17944
time for action (address), 15271
we can help clear the air, Jaycee community action program, 15311
whose problem? (paper), 1412
Air raid shelters:
creation of fallout shelter through slanting and cost reduction techniques, 14291
thermal environment in shelters, evaluation, 12467
Air raids, defense, agreement with Canada, 9725
Air reservist (periodical), 2661
Air routes, *see* Airways.
Air safety, *see* Safety of life.
Air service, *see* Aeronautics.
Air space utilization, *see* Air traffic.
Air speed:
approach speed, application of criteria derived from closed-loop pilot-vehicle systems analyses to ogee wing aircraft, 15072
attainment of high lift-drag ratios at hypersonic speeds, errata, 1245
ground effects on single- and multiple-jet VTOL models at transition speeds over stationary and moving ground planes, 4955
hypersonic—
laminar viscous interaction effects on aerodynamics of 2-dimensional wedge and triangular planform wings, 15153
maximum lift-drag ratios of slender wing-body configurations, geometric modifications, effects, 7829
supersonic, roughness drag, 16669
transonic speeds, pressure distributions on ogive cylinder, 15148
Air support, 10894
Air traffic:
activity, FAA report, 1965, calendar year, 5913
air carrier statistics—
monthly and 12-month, 2657
supplement, 2655
control—
facility operation, change, 3802, 6818, 11386, 16951
Federal Aviation Agency operations, hearings, 11658.
in these hands, 16268
lateral separation procedures, changes, 3801
procedures, changes, 2663
radar research task, development and evaluation, 9937
Servo-altimeter displays, evaluation, final report, 7975
enroute IFR survey, peak day, 10455
navigable airspace, objects affecting, Federal aviation regulations, change, 14606
patterns for IFR and VFR aviation, 10454
security control, FAA regulations, 5919
Air traffic controllers, trainees, anthropometry, 6874
Air Traffic Service:
air traffic control trainees, anthropometry, 6874
communications procedures, handbook, change, 1629
service A weather schedules, ATS handbook, 9879
changes, 104, 6819, 16953
Air transportation, *see* Aeronautics—Air carriers—Transportation.
Air University Library, index to military periodicals, 2664
Air University review, 2665
Air warfare:
air support, Fleet Marine Force manual, 10894
close air support—
hearing, 4121
subcommittee report, 4122
special tactics, 6785
Vietnam, tactical and operational problems, 2275
Airbases, *see* Air bases.
Airborne particle size analysis, composite bibliography, 12680
Aircraft:
agricultural operations, Federal aviation regulations, 10465–467, 17648
air support, Fleet Marine Force manual, 10894
aircraft and aircraft engines, current industrial reports, 2817, 12712
aircraft and related products, identification and registration marking, Federal aviation regulations, changes, 5918, 14601
airworthiness, FAA directives, 2671
biweekly, 2903
alterations, acceptable methods, techniques, and practices, 8944
and parts, census of manufactures, 1963, industry statistics, 6913
Army—
automated cargo delivery systems, cost, etc., evaluation, 14233
fundamentals of electricity, 8271
grounded because of lack of required repair parts, GAO report, 805
bird vs. aircraft, 7439
ceramics as structural materials, 17883
certification procedures for products and parts, Federal aviation regulations, 686, 4354, 5917, 7350, 16258
civil aircraft register, 8889, 16270
Coast Guard, authorization for procurement, 1967—
hearings, 5700, 10332
law, 7045
reports, 5675, 7187
company operated and chartered, charges to defense contracts, GAO report, 13379
components and accessories, Federal item identification guides for supply cataloging, supplements, 2940
configurations with canard controls, hypersonic aerodynamic characteristics, 9515
control surfaces, delta-planform canard, divergence characteristics, 7898
decontaminating, practice guide, 14684
Defense Dept. military procurement appropriations, 1966, report, 17198
dynamics in unsteady flight, analytical study, 3837
emergency procedures over water, 2666
F11B program, hearings, 17357
Federal item identification guides for supply cataloging, supplements, 2940
firefighting and rescue operations, Army technical manual, 15515
flight investigation of aerodynamic properties of ogee wing, 2407
flight vehicle structures, metallic materials and elements, change, 615

Aircraft—Continued
general aviation—
inspection aids, summary, 16266
study and 1975 forecast of fleet and its use, 16267
general operating and flight rules, Federal aviation regulations, 8881–83, 16263
changes, 690, 4356, 7354, 13309
IFR altitudes, Federal aviation regulations, 14607
insignia, recognition, identification guide, 13901
inspection aids, general aviation, 3017
inspection and repair, acceptable methods, etc., 10541
jet, noise near airports, alleviation, report, 11214
land use planning with respect to noise, Air Force manual, 9850
landing and takeoff noise, land exposed, optimum use, study, 7732
large, airworthiness directives, summary, 3554, 10470
large, commercial operators, certification and operations, Federal aviation regulations, 7355
changes, 2007, 4357–58, 5920, 8884–85, 14609–610
lateral separation procedures, changes, 3801
Mach 3 commercial supersonic transports, potential of liquid-methane fuel, 12352
maintenance, preventive maintenance, rebuilding and alteration, Federal aviation, Federal aviation regulations, changes, 7351, 8877–78, 14600, 17646
maneuver load fatigue test results, programing techniques and load factors influence, 4913
manned, low-speed tests of 50°-swept parawings, 15144
manufacturing occupations, employment outlook, 9292
military administrative, savings through improved utilization of space, Air Force Dept., GAO report, 14731
military FAA use of available parts, GAO report, 8985
military procurement, appropriations, 1966, supplemental—
hearings, 5797, 7117
law, 7031
reports, 5666, 5757, 7079, 7083
military procurement, appropriations, 1967—
hearings, 8766, 10232
law, 11593
reports, 8644, 8744, 12930
military, transportation of dangerous materials, Air Force manual, 8175
military, United States recognition identification guide, 11158
ogee wing, application of approach speed criteria derived from closed-loop pilot-vehicle systems analyses, 15072
ordnance lubricants, icing resistance, factors affecting, 2500
performance, calculus of variations applications, 10965
physiological effects of 18-hour flight, 12642
pilot describing function measurements in multiloop task, 15052
recognition, evaluation of tachistoscopic and WEFT techniques, 5069
registration, Federal aviation regulations, 8879
rotary wing, exploratory development, progress reports, 1634, 3813, 5342–43, 6827, 9885
small, airworthiness directives, summary, 3555, 10471
supersonic, airframe-engine integration aerodynamics, 13805
Aircraft—Continued
supersonic transport—
fatigue behavior of material for wing structure, 1190
transonic aerodynamic characteristics of tailless fixed-wing model, 7810
supersonic transport crews, potential roles and implications for flight deck, 17872
supplemental type certificates—
and approved replacement parts, summary, supplements, 3563
summary, 5966
swept wing-body model, wing leading-edge shape effect on aerodynamics characteristics, 16691
technology advances (address), 9551
thunderstorm water content measuring, equipment, data obtained, etc., 15421
titles and security documents, recording, Federal aviation regulations, change, 7352
trajectories, minimum time between 2 points in range-altitude space, 17882
Tu–144 supersonic, USSR, comments, 16484
type certificate data sheets and specifications, 2668
use for zero-gravity environment, 9517
V/STOL—
and STOL, NASA Conference, Moffett Field, Calif., 9447
four duct tandem, stability and control characteristics, flight investigation, 9502
on-off control under visual conditions, 11063
tilt wing transport, powered ⅛-scale model, static and dynamic longitudinal stability derivatives, 16670
tilting ducted fans arranged in dual tandem configuration, longitudinal and lateral-directional aerodynamic characteristics, 12361
transport, flapped tilt-wing 4-propeller, longitudinal aerodynamic characteristics, 6424
VTOL—
blast controlling platform, design and development, feasibility study, 4335
jet-induced lift losses—
configurations hovering in and out of ground effect, 6415
hovering condition, 11062
nozzles designed for downwash suppression, exhaust jet wake and thrust characteristics, 4828
semispan tilt-wing, ground effect on full-span flaps used for yaw control in hovering, 11064
wake turbulence, advisory circular, 2011
war risk insurance, extend authority until 1970—
law, 11556
reports, 10315, 11622
wing-body combinations, aerodynamic center combinations, 16662
wing-body-tail model, wing planform effects on aerodynamic characteristics at Mach numbers from 1.70 to 4.63, 2412
XV–9A hot cycle research—
component testing, 3836
ground and flight tests, 8272
program, summary report, 14232
see also Airplanes—Fighter planes—Flight—Gliders (aircraft)—Sonic boom—Stall (aircraft)—*also* names of aircraft parts, e.g. Air inlets (aircraft) — Engines (aircraft) — Propellers—Wings (aircraft).
Aircraft accidents:
air carriers, statistical review and resume, 15614
bird vs. aircraft, 7439
civil aviation, summary reports (periodical), 3565
crashes, predominant causes and recommended therapy, 15554

Aircraft accidents—Continued
gas turbine powered MB–5 firefighting and rescue vehicle, 6539
general aviation, small fixed-wing aircraft, briefs (periodical), 2711
head and face injury potential of airline seats during crash decelerations, 14243
human factors, 16984
investigation reports, 282, 3950, 11485–486, 12735–736
physician flight accidents, 15559
rules of CAB, investigations, etc., 14287
U.S. air carriers involving in-flight turbulence, 1960–63, 1742
UH–1D aircrew armored seat crash, survival analyses, 139
Aircraft carriers, deck motion, determination, 1354
Aircraft dispatchers, examination guide, 10542
Aircraft engines, see Engines (aircraft).
Aircraft repair stations:
aircraft maintenance and repair shop specialized equipment, 13246
FAA certificated, consolidated listing, 11980
Federal aviation regulations, 5921, 7356 changes, 8886, 13310, 14614
Aircraft simulators, general purpose airborne simulator conceptual design report, 16591
Aircrews, see Flight crews.
Airdrop operations, see Air drop operations.
Airfields, see Airports—Aviation fields—Pavements.
Airfoils, leading-edge thermal stress, pretensioning concept for relief, 12367
Airframes:
airframe-engine integration of supersonic aircraft, aerodynamics, 13805
fundamentals, Army technical manual, 134
structural components, Federal item identification guides for supply cataloging, supplements, 2940
Airglow, seasonal variation of nightglow in tropics, 5019
Airlift, see Transportation.
Airline stewardesses, see Stewardesses.
Airlines, see Air carriers.
Airlock, see Air lock.
Airmass, see Air mass.
Airmen:
airman's information manual, 1628, 2670, 11385
international notams, 3079
on-the-job training, guide for planning and conducting, 15482
other than flight crewmembers, certification, Federal aviation regulations, 7353, 10461–462, 11913, 14604, 16262
Pacific airman's guide and chart supplement (periodical), 3306
performance upon sudden awakening, 97–98
physical standards, medical certificates, Federal aviation regulations, 2006, 8880, 14605, 17647
qualifying examination, comparison with differential aptitude tests, 15488
see also Air Force.
Airmobile Division, troop topics, 1644
Airplane tires, see Tires.
Airplanes:
accelerations, effects on sonic-boom ground pressure patterns, 15152
airworthiness standards—
normal, utility, and acrobatic category, Federal aviation regulations, 687, 16259
transport category, Federal aviation regulations, changes, 688–689, 4355, 13307
Airplanes—Continued
arrow wing-body configuration, effect of nacelle orientation on aerodynamic characteristics, 6449
Caribou CV–2B used for airdrop of supplies and equipment, 6845
Denalt performance computer for use with fixed pitch propeller plans, 14681–682
flight instructor examination guide, 4429
hydrogen-fueling hypersonic, structural concepts, 6414
jet fuel anti-icing additive, effect on tank linings, 1369
large, landing approach, inflight and ground-based simulation of handling qualities, 17884
low-aspect-ratio—
delta-wing model equipped with sharp-edged strakes, wind-tunnel tests, 16684
wings, ground effects related to landing, 16663
manned bombers in SAC, reduce number and types—
hearing, 8653
subcommittee report, 8657
multiengine, pilots flight test guide, class or type rating, 11981
single-engine, private pilot flight test guide, 16317
sonic-boom characteristics, proposed supersonic and hypersonic airplanes, 16667
STOL—
configurations, twin-propeller deflected-slipstream, longitudinal stability and control characteristics of powered model, 13808
deflected slipstream, pilot opinion of trim changes with power, 6433
subsonic jet-transport, model, aerodynamic damping and oscillatory stability in pitch, 4918
supersonic—
Air Force Thunderbirds, aerial demonstration team flying North American F–100 Super Sabres, 6817
wave drag at lifting conditions, analysis, 16666
supersonic transport—
crews, potential roles, flight deck implications, 15064
model with high-aspect-ratio variable-sweep wing, pitch-up, 15160
transonic aerodynamic characteristics of tailless fixed-wing model, 7810
TFX contract investigation, hearings, index, 10348
transport—
T-tail, deep-stall pitch-up characteristics, parametric study, 13803
turbojet and piston-engine, response to runway roughness, 4919
variable-sweep-wing, flutter studies at Mach numbers up to 3.0, 13820
VTOL—
fan-in-wing model, dynamic stability and control characteristics, flight investigation, 13807
longitudinal aerodynamic characteristics of powered 4-duct propeller model, 9507
transition speeds, ground effects on single- and multiple-jet models over stationary and moving ground planes, 4955
X–15—
control experiences pertinent to lifting entry, 4978
data display system, 10940
decelerator drag characteristics in wake, 6450
flight measurements of boundary-layer noise, 7877
full scale lift and drag characteristics, summary, 7862

Airplanes—Continued
X–15—Continued
high-altitude and entry flight control experience, 7893
landing loads, summary, 4979
skid materials, drag and wear characteristics, 6469
spherical, hypersonic flow-direction sensor, characteristics, 1253
X–15 airplane and model, flow conditions on fuselage, 11069
X–15–2 research, boundary layer transition, analysis, 12360
see also Aircraft—Sonic boom.
Airport control tower operators, air controlman 1 & C, 7963
Airport control towers, *see* Towers.
Airport industrial parks, *see* Industrial parks.
Airports:
access, selected references, 17645
activity statistics of certificated route air carriers, 8378, 12737
civil, radiation safety, 3805
construction, alteration, activation, and deactivation notice, FAA regulation, 14616
development (remarks), 17060
directory, airman's information manual, 11385
drainage, 3804
Federal act, amend—
hearings, 11797, 17383
law, 17136
reports, 11776, 15940
Federal aid program—
Federal aviation regulations, 693, 2009, 10468, 16264
field operations procedures, FAA handbook, 5914
grants-in-aid provisions, extend time—
hearings, 11797, 17383
law, 17136
reports, 11776, 15940
international, Federal inspection service facilities, 11387
jet aircraft noise near airports, alleviation, report, 11214
lighting—
approved equipment, 15496
installation details for centerline and touchdown zone lighting systems, 15497
location identifiers handbook, 3165
national airport plan, 1966–70, 1630
National Capital, Federal aviation regulations, 5922
change, 8867
national parks, etc., authorization, increase—
hearings, 17385
reports, 16095, 17255
rapid construction in theater of operations, technical manual, 127
terminal instruments procedures (TERPS), U.S. standards, 16255
see also names of places where located.
Airsickness, *see* Motion sickness.
Airways:
Alaska routes, certificated, map, 3951
domestic, international and overseas routes for U.S. certificated cargo carriers, map, 3962
international and overseas routes of U.S. carriers, map, 3952
lateral separation procedures, changes, 3801
navigable airspace, objects affecting, Federal aviation regulations, change, 14606
routes to U.S. authorized to foreign air carriers under permit—
Eastern Hemisphere countries, map, 3957
Western Hemisphere countries, map, 3958
Airways—Continued
U.S. transportation system routes certificated—
local service carriers, 3960
trunkline carriers, 3961
user act of 1966, proposed legislation, technical explanation, 7168
user charges, proposed legislation, hearings, 15996
Airworthiness, *see* Aircraft—Airplanes—Engines (aircraft)—Gliders (aircraft).
Aitchinson, Florence, utilization of social work staff with different levels of education, etc., 11907
Akamine, E., dosimetry, tolerance, and shelf life extension related to disinfestation of fruit and vegetables by gama irradiation, 8296
Akron, Ohio:
area wage survey, metropolitan area, 14976
commodity transportation survey, production area series, 8344
AKTIV, *see* Communist Party of Armenia.
Alabama:
census of business, 1963, wholesale trade, area statistics, errata, 3882
census of manufactures, 1963, manufacturing plants, location by county, industry, and employment size, 14259
Clay County Soil Conservation District, multipurpose lake on former pasture (colored poster), 9660
climatological data, 2751
congressional districts, 90th Congress, 15602
county business patterns, 1711
electric rate book, 703
fishery products, wholesale dealers, list, 773
landings, fish and shellfish, 2672, 13339
life tables, 18008
northeast, Cumberland Escarpment and Highland Rim, interpretation, 6034
precipitation data, hourly, 3045
water used in mineral industry, 15033
Alabama River and Valley Millers Ferry and Jones Bluff Locks filling and emptying systems, hydraulic model investigation, 10444
Alameda, Calif., soil survey of area, 8030
Alampi, Phillip, New Jersey's outstanding citizen of the year, ceremonies honoring (address), 14124
Alarm systems:
detection ensures positive alarm in digital message loss, 12327
Federal item identification guides for supply cataloging, supplements, 2936
Alashan Desert, Inner Mongolia, region types, 16495
Alaska:
air carrier routes, map, 3952
Arctic northwestern, coal, sampling and coking studies, 12240
aspen and birch stands, growth and yield, 4471
census of manufactures, 1963, area statistics, 16992
certificated air routes, map, 3951
climatological data, 2751
coast pilot, Pacific and Arctic Coasts, Cape Spencer to Beaufort Sea, supplement, 6986
coastal warning facilities chart, 11314
county business patterns, 1712
Dixon Entrance to Cape Spencer, coast pilot, supplement, 5535
earthquake, Mar. 27, 1964—
and aftershocks, Prince William Sound, Coast and Geodetic Survey program, operational phases, 12763
civil defense emergency operations, preliminary report, 8385
effects on communities (series), 4525, 6036, 13410
regional effects (series), 13411–412
east-central, silicified Ordovician brachiopods, 9650

Alaska—Continued
electric rate book, 2021
environment of Cape Thompson region, 11432
fisheries, 1964, annual summary, 4401
ground, large scale patterned, origin and environmental significance, Donnelly Dome area, 1637
highways, report on study, 10367, 11828
housing legislation—
hearings, 10329
report, 13188
life tables, 18009
long-lines communication facilities, Government-owned, disposal—
hearing, 13194
report, 17516
manufacturing plants, location by county, industry and employment size, 1963 census, 16997
map, general, inset on United States map, 13651
announcement and order form, 17999
medal in commemoration of anniversary of purchase—
law, 8469
report, 7180
migratory birds, Federal regulations governing hunting, etc., 1966–67, 14673
mineral industry, minerals yearbook chapter, 2320
natives—
dental services, fiscal year 1965, annual report, 6573
housing, studies, 5104
northern—
micropaleontology of Mesozoic rocks, 12017
naval petroleum reserve no. 4 and adjacent areas, exploration (series), 12017
nursing home care for veterans, eliminate certain requirements, reports, 10134, 11744
100th anniversary of its purchase from Russia, U.S. to observe—
hearing, 525
law, 7039
reports, 559, 5670
Palmer Soil Conservation District, new farmland in Matanuska Valley (colored poster), 9661
physiographic divisions, 10642
plane coordinate intersection tables, errata, 6983
principal electric facilities, map, 7381
reemployment leave travel benefits granted employees of Defense Dept. and other agencies, GAO report, 8998
retail trade, wholesale trade, and selected services, by election districts, 1963, special census report, 6886
Sashin Creek, spawning pink salmon, distribution and survival of progeny, 16313
snow, accuracy of field surveys, 3820
snow surveys, 2962
soils of Okpilak River region, development under Arctic environment, 15506
southeast—
aerial seeding sitka spruce and western hemlock on cutover area, 4444
herring fishery, 749
stream catalog of regulatory—
district 5, 6, 7, and 8, 2047
district 9, 4426
volume tables and equations, young-growth western hemlock and sitka spruce, 8960
surface water records to Dec. 31, 1963, index, 2100
tertiary stratigraphy and paleobotany of Cook Inlet region, 12020
what about land in Alaska? 6275
Alaska Agricultural Experiment Station, transfer to University of Alaska, report, 17462
Alaska Centennial Commission:
U.S. participation in centennial celebration—
hearing, 525
law, 7039
reports, 559, 5670
Alaska, Gulf of, northeastern, bottom trawling surveys, 4406
Alaska Railroad:
appropriations, 1967, hearings, 7113
budget presentation of capital expenditures, GAO report, 10618
transfer, message from the President, 5617
Alaska, University of, *see* University of Alaska.
Albania:
labor conditions, 13622
mineral industry, minerals yearbook chapter, 1114, 15014
press information report, 3339
unknown features, Turkish journalist's notes, 12190
Albany, N.Y.:
area wage survey, metropolitan area, 13597
commodity transportation survey, production area series, 9953
Albany Metallurgy Research Center, metallurgical progress reports, 1685, 6866, 11439
Albedo, and sky radiance measurements in Greenland, 11395
Alberg, M., differential energy and angle spectra for 137–Cs gamma-rays in sand, 11423
Albers, James A.:
condensation pressure drop of nonwetting mercury, 4933
pressure drop of wetting and nonwetting mercury condensing in uniformly tapered tubes, 4974
Albert, C. D., fluvial sediment in Little Arkansas River Basin, Kans., 14754
Albert Thomas Veterans' Memorial Cemetery, naming report, 10136
Albizzia:
molucca, grown in Hawaii—
machining properties, 10563
physical and mechanical properties, 8970
Albo, Jacobo, *see* Maya, Jacobo A.
Albuquerque, N. Mex.:
aerial radiological measuring survey (ARMS) of area, 8279
area wage survey, metropolitan area, 13600
Alcohol:
absorption of high-frequency ultrasonic vibrations in alcohol-water mixtures, USSR study, 13518
and accidental injury, conference proceedings, 10653
effects on rats under ambient and low temperatures measured by avoidance response, 5315
ethanol-jet atomization in combustor with oscillatory combustion-gas flow, 15147
industries, 1965, statistics, 6068
laws enforced by Alcohol and Tobacco Tax Division, 16380
systemic effects alone and in combination with other drugs, influence of variations in environmental temperatures, 3781
Alcohol and Tobacco Tax Division:
laws enforced, guide for law enforcement officers, 16380
what you should know about it, 4573, 16382
Alcoholic beverages, *see* Liquors.
Alcoholism:
activities of HEW, 7492
alcoholic offender, 12566
and vocational rehabilitation, proceedings of workshop, 15415
court and chronic inebriate, conference proceedings, 834
identifying problem drinkers in household health survey, 13999

Alcoholism—Continued
social, psychological and economic aspects, 15428
supervisory guide, Navy, 9032
Alder:
European, sylvics, 11907
nepal, grown in Hawaii, machining properties, 10563
red, seasonal progress of radial growth, 4472
Alderman, Alice J., acute conditions, incidence and associated disability in U.S., 6587
Aldol, condensations, progress report of Organic Chemistry Section, July 1964–June 1965, 1299
Aldon, Earl F., prefabricated flume for gaging ephemeral streams, 4451
Aldrich, John W., American eagles and their economic status, 14650
Aleutian Islands National Wildlife Refuge, general information, 13347
Aleuts, loans, guaranteed, etc., report, 17211
Alexander, J. A., study of low density, high strength high modulus filaments and composites, 15041
Alexander, Robert R., lodgepole pine reproduction after slash disposal treatment, 13364
Alfalfa:
dehydrating plants, feasibility of establishing in Northwest resource conservation and development project areas, 14542
diploid and tetraploid, flower color inheritance, reevaluation, 6783
sickness, relation of Rhizobia in eastern Washington, 6709
Alfandre, Howard J., aerotitis media in submarine recruits, 14992
Alford, D. L., Goose Lake, Mont., 1964, accessibility field methods and logistics, 1638
Alford, Donald, high elevation research notes, 117
Algae:
bioregenerative systems, 8211
Hungarian studies, 4673
oxygen production, effect of light intensity and thickness of culture solution, 5075
process of continuous culturing of microalgae, mathematical description, USSR study, 4624
Algebra, solution of ordinary differential equations by means of Lie series, 16592
Algeria:
background notes, 15337
mineral industry, minerals yearbook chapter, 4760
Algorithms, *see* Calculus—Mathematics.
Aliens:
code of Federal regulations, 10485
deportation suspension, 1896, 12898
foreign visitors, how America welcomes, 7060
mother tongue before coming to U.S., 1960 census of population, 5501
permanent residence, granting of status opposed, 1819
USSR, regulations governing travel of foreign nationals, 14847
errata, 17750
Alighieri, Dante, *see* Dante Alighieri.
Alignment tool facilitates pin placement on irregular horizontal surfaces, 16633
Alkali halides, thermopotential measurements, 4927
Alkali metals:
apparatus enables accurate determination of alkali oxide content, 13734
electromagnetic pump research, 6332
Alkanes, *see* Paraffins.
Alkyl cycloalkyl sulfide, *see* Sulfides.
All hands, Naval Personnel Bureau career publication, 2673
All-Union:
NOTE.—For headings beginning All-Union, *see* Union of Soviet Socialist Republics.
Allan, Philip F., autumn olive for wildlife and other conservation uses, 42
Alldredge, L. R., Automatic Standard Magnetic Observatory, 17050
Allegheny Airlines, Inc., accident, 15613
Allegheny Reservoir:
designate—
law, 15769
report, 16126
Allegheny River and Valley:
Kinzua Dam-Allegheny Reservoir, designate—
law, 15769
report, 16126
Allen, Gabriel, magnetic breakdown in finite 1-dimensional model, infinite potential relaxed, 7823
Allen, George C., feed consumed by various classes of livestock, by States, 16941
Allen, Harry C., jr., research on crystal growth and characterization at National Bureau of Standards, 16716
Allen, J. W., ternary phase diagrams for Ga-P-Zn and Ga-As-Zn systems with applications to diffusion problems, 9412
Allen, Mary E.:
aviation medicine—
reports, annotated catalog, 15553
translations, annotated bibliography, 12688
Allen, Philip T., balance sheet of agriculture, 15441
Allen, Ralph G., jr., eclipse burns in humans and laboratory threshold measurements in rabbits, 12634
Allen, Richard A., air radiation tables, etc., 15060
Allen, William B., availability of ground water, upper Pawcatuck River basin, R.I., 17730
Allen, William H., dictionary of technical terms for aerospace use, 1194
Allentown, Pa.:
area wage survey, metropolitan area, 10869
commodity transportation survey, production area series, 9952
Allergy:
biologically active therapeutic and prophylactic agents, USSR study, 7627
problems in clinical practice, USSR study, 9100
Alleviation of jet aircraft noise near airports, 11214
Alley, Vernon L., jr., aeroelastic divergence in unguided launch vehicles, 7832
Alliance for progress, *see* Latin America.
Alliances:
NATO and Warsaw Pact, Yugoslav analysis, 14812
Warsaw Pact, role in Soviet bloc affairs, 10351
Allied Trade Council, union welfare pension funds diversion, report, 13138
Allis-Chalmers Manufacturing Co., conceptual design of 50 MGD desalination plant, 9034
Allison, Dennis O., thermodynamic properties of gas mixtures, 15156
Allison, Lewis J., TIROS VII infrared radiation coverage of 1963 Atlantic hurricane season, 12335
Allmaras, R. R., porosity and random roughness of interrow zones influenced by tillage, 9791
Allowances, *see* Pay, allowances, etc.—Travel—Wages.

Alloys:
accelerated cavitation damage of superalloys in liquid metals, 9539
bearing, with hexagonal crystal structures provide improved friction and wear characteristics, 15103
braze—
development and evaluation for vacuum furnace brazing, 12272
used as temperature indicators, 12315
brazing, eliminates metal-stress cracking, 2401
columbium-modified NASA TAZ–8 superalloy, investigation, 15188
dispersion hardening, 4817
dispersion-strengthened after failure in stress rupture, metallographic study, 13831
electric pulse machining, USSR study, 16477
high-strength, electrical discharge machining, USSR studies, 14832
internal friction, USSR study, 16492
nonferrous, smelting and refining, 1963 census of manufactures, industry, report, 5446
oxidation-resistant coatings on columbium alloy sheet, study, 7828
superalloys, nickel-base, for high temperature applications, 11016
see also names of metals, etc.
Allsman, Paul L., gypsum, 15008
Alluviums:
alluvial channels—
reistance to flow, 17718
total bed-material discharge, 4526
Arkansas River, Muskogee, Okla., to Fort Smith, Ark., hydrology, 6040
bolson environment and formation of alluvial fans, study, 817
Ohio River Valley, Ky., hydrology, 4530
studies of flow in alluvial chanels (series), 4526
All-Woods, Ltd., accident, 12068
Almanacs:
air, 5052, 11138, 15229
National Institutes of Health, 1310, 15291
nautical, 1967 calendar year, 9576
Almazan, Diosdado F., relief, 382
Almonds, Italy, industry, 13352
Almroth, B. O., influence of imperfections and edge restraint on buckling of cylinders, 9406
Alnus glutinosa, *see* Alder.
Alouette satellite, *see* Satellites.
Alpha particles:
scattering from tin isotopes, 1252
errata, 6411
solar cell damage rates, 9540
Alpha spectra, *see* Spectra.
Alphabet, standard alphabets for highway signs, reference guide, 16815
Alphonsus, RLC 14–17, lunar charts, 14187
Alsea River and Valley, waterpower resources and reconnaissance geology of basin, 17727
Alt, Franz L., information handling in National standard reference data system, 12387
Alternating currents, *see* Electric currents.
Altimeters, servo displays, evaluation, final report, 7975
Altitude:
ascent and acceleration, change in oxygen pressure in heart muscle, USSR study, 1027
effect on d-amphetamine in rat, metabolic aspect, 9876
high altitude exposure, bubble theory of etiology of decompression sickness relation, 5326
high elevation research notes, 117
high, temperature measurement, thermistor arrangement, 13716
operation of aircraft under IFR, Federal aviation regulations, 14607
Altitude—Continued
physiology of chronic adaptation to high elevations, USSR study, 4633
scale heights in topside ionosphere, Alouette I observations, 13726, 17890
spacecraft, sextant measures without gravitational reference, 7797
trajectories, minimum time between 2 points in range-altitude space, 17882
Alumina:
aluminum oxide, single crystal and polycrystalline, in contact in vacuum, friction characteristics, 15190
chromium oxide coatings improve thermal emissivity of alumina, 11020
coatings, plasma-sprayed on stainless steel, shear bond strength analysis, 1275
cost estimate of Bayer process for producing, 2356
extraction by leaching melted and quenched anorthosite in sulfuric acid, 9369
extraction from phosphate rock slime, 17853
filler prevents obstructions in tubing during welding, 7781
films, electronic properties, etc., 6338
single-crystal and polycrystalline, in contact with various metals in vacuum, friction characteristics, 15185
spectral emittance on opaque substrates, 1277
suspension of duty, continue—
law, 10091
reports, 8560, 10301
Aluminoferrites, *see* Calcium aluminoferrites.
Aluminum:
alloys—
corrosion resistance of flame-used teflon to sodium chloride solutions, 12432
formable, for high temperature service, USSR study, 4611
local plastic stresses in sheet specimens with stress-concentration factor of 2 under constant-amplitude loading, 4914
research in USSR, 16461
thermal stress-relief treatments, 17908
weldable, improved mechanical properties, 17907
wrought products, tolerances, Federal standard, 10516
aluminum and stainless steel, brazing process provides high-strength bond, 13787
base alloys, USSR study, 13453
bismuth alloy potting seals aluminum connector in cryogenic application, 7792
bremsstrahlung production by electron bombardment, 2359
chemical milling solution produces smooth surface finish, 13748
composite plates, high tensile strength, 12304
core structures brazed without use of flux, 13795
crimping sleeve prevents damage to fish hooks, 4405
disposal from national stockpile—
hearings, 11643
law, 11569
reports, 10148, 11757
doping improves silicon solar cells, 10992
electrodeposition from fused-salt electrolytes containing aluminum chloride, 10923
electron scattering, 2359
etching thick layers, system to minimize bridging, etc., 16623
hypereutectic silicon master alloy, commercial improvement, 9384
ingot and mill products, current industrial reports, 2817, 12707
minerals yearbook chapter, 17832

Aluminum—Continued
opaque reflective coatings, produced by anodization, 1212
parts, brazing processing using Al-Si filler alloy reliably bonds, 11033
penetration of polyethylene at high velocities, 7882
plates under hypervelocity impact, dimple, spall, and perforation characteristics, 12350
plating copper on, suggested method, 9448
primary, monthly report, 3414
scrap and secondary ingot, mineral industry survey, monthly, 3496
self-supported thin films produced by vacuum deposition process, 15117
7079 aluminum alloy forgings in cyrogenic environment, properties, 12271
Ti–8Al–1Mo–1V sheet, fatigue behavior, 1190
titanium-aluminum alloys in vacuum friction, wear, and adhesion characteristics, 4969
welding—
improved by back-up bar groove configuration, 17906
USSR studies, 9103
see also names of articles manufactured from aluminum.
Aluminum chloride, contained in fused-salt electrolytes, electrodeposition of aluminum, 10923
Aluminum foil:
converted, current industrial reports, 15581
thermal flux perturbation by dysprosium-aluminum foils in water and uranyl fluoride-water solutions, 6428
Aluminum Industry Planning Institute, Hungary, organization, development and tasks, 2185
Aluminum oxide, *see* Alumina.
Alvarez-Gomez, Anselmo S., relief, 16056
Alverson, Douglas C., geology and hydrology of Fort Belknap Indian Reservation, Mont., 824
AM series, 172, 6874, 8307–8, 9936–38, 11446–448, 12688, 14243, 15353–559, 16982–984
annotated catalog, 15553
Amado, Juliano, relief, 11728
Amado, Manuel, relief, 11728
Amat, Alberto Fernandez-Bravo y, *see* Fernandez-Bravo y Amat, Alberto.
Amateur Athletic Union, NCAA–AAU dispute, hearings, 1933
Ambre, Ago, occupational outlook quarterly, 3287
Ambrose, Paul M., sulfur in 1965, preliminary, 4803
Ambulances, 2d and 3d class postal rates for volunteer ambulance and rescue companies, extend, report, 12943
AMC, *see* Army Materiel Command.
AMD, *see* Aerospace Medical Division.
Amebiasis, occurrence, sources and methods of infection, symptoms, etc., 15280
America:
Alouette I observations over continents, 13726, 17890
beautifying America begins at home, 15469
building rural, rural areas development, press reports, 14597, 17644
dilemma of progress, prosperity, etc., on physical condition of our country (remarks), 16773
4–H club challenge to young America (address), 3748
historic sites, preserving, 12037
language, classification, Library of Congress, 4741
literature, classification, Library of Congress, 4741
see also Latin America—North America—South America.
America illustrated (periodical):
Polish language, 2675
Russian language, 2676
America the beautiful (colored poster series), 9660–9711
American Academy of Actuaries:
incorporate—
hearings, 17388
report, 1921
American Airlines, Inc., emergency board report, 17628
American Battle Monuments Commission:
appropriations, 1967—
hearings, 15955
reports, 15938, 17539
American civilians who are fighting shirtsleeves war in Vietnam, 17745
American Creosote Works, Inc., President's E award for export excellence (remarks), 12787
American education (periodical), 2677
American Ethnology Bureau, bulletins, 9880, 15498
American Federation of Government Employees, AFL–CIO, National Council of Field Labor Lodges, agreement with Labor Department, 17798
American Federation of Labor and Congress of Industrial Organizations:
agreement with Post Office Department, 16779
civil defense policy regulations, change, 5512
American-flag vessels, *see* Merchant marine.
American history, *see* History.
American History Month, designate, report, 5773
American Indians, *see* Indians.
American Institute for Foreign Trade, President's E award for excellence in exporting (address), 326
American Institute of Aeronautics and Astronautics, Rankine space power systems, AIAA specialists conference, 12673
American Instructors of the Deaf, Convention of, *see* Convention of American Instructors of the Deaf.
American Isthmus, *see* Panama Canal.
American Legion:
convention, 1965, proceedings, 8491
convention, 1967, appropriations, hearings, 13013A
legislative recommendations, 1966, hearings, 8685
American Meteorological Society, meteorological and geoastrophysical abstracts, 13892
American Numismatic Association:
medal in commemoration of anniversary—
law, 8477
reports, 7182, 8572
American policy, *see* International relations.
American republics:
social science research studies, 11251
waterborne transportation, inter-American convention, 13085
see also Latin America.
American Research Hospital for Children, Krakow, Poland, history and dedication, report, 7100
American Revolution Bicentennial Commission:
establish—
law, 12822
message from the President, 5624
reports, 12923, 16084
American River division, *see* Central Valley project.
American Samoa:
Governor, 1964, report, 4548
industries, minimum wage rates, data, 5218
nautical chart catalog, 6989
social security tax guide for employers, 2116
American soldier posters, 3812

American Veterans of World War II:
legislative recommendations, 1966, hearings, 8685
redefine membership eligibility—
law, 17104
report, 17222
Americans at mid-decade, 3927
America's children and youth in institutions, 1950–1960–1964, demographic analysis, 6943
America's lifelines, Federal aid for highways, 11202
Ames Research Center, Moffett Field, Calif., automatic data processing equipment, planning and utilization, GAO report, 10621
Ametropia, physiologic variations of depth of anterior chamber, 5328
AMG, *see* Acreage marketing guide.
Amides, polyimide and filled polyimide composition, friction characteristics, 6441
Amines:
adsorption from nonaqueous solution onto hydrated and dehydrated metal oxide surfaces, 6540
solvent, use in extraction of tungsten from low-grade concentrates, 17854
tertiary, for extraction and separation of lanthanides, 13693
use of gas masks for respiratory protection against, 13681
Ammonites, Lower Cretaceous (Albian) ammonite genera Leconteites and Brewericeras, 2104
Ammonium nitrate:
and ammonium nitrate-fuel oil, sympathetic detonation, 7714
explosion hazards under fire exposure, 7718
Ammonium salts, quaternary, thermodynamics of aqueous solutions, 853
Ammunition:
contracts, prices negotiated, Army Dept., GAO review, 8997
Defense Dept. management, GAO report, 8991
facilities, technical manual, 1655
Federal item identification guides for supply cataloging, supplements, 2940
idle production facilities, readiness status, GAO report, 10628
reusable components, possible savings from improving management control, GAO report, 4501
status, hearings, 10324
Amortization, *see* Mortgages.
Amos, Murray H., commercial clams of North American Pacific Coast, 10525
Amosite asbestos, *see* Asbestos.
Amphetamines, metabolic aspect of effect of altitude on d-amphetamine in rat, 9876
Amphibious operations:
antimechanized operations, Fleet Marine Force manual, 2309
NROTC cruise manual, 11151
Amphidromus, *see* Snails.
Amphipods:
marine amphipoda of family Ampitholdae from southern California, 5042
marine, of atolls in Micronesia, 2466
Amplifiers:
audio, linear class B, output-power capability, load-impedance and wave form effects analysis, 16758
coherent light generators and amplifiers, USSR study, 12174
dc, tester periodically registers characteristics, 7802
distributed amplifier for use with ionospheric sounders, 7922
electronic super-high frequency, and plasma, USSR study, 13511
logarithmic current, transistor circuit increases range, 13785
magnetic, basics, trainee's guide for fire control technician training, 17973
Amplifiers—Continued
parametric, ultra-low-noise 1700-Me system, 7859
remote preamplifier circuit maintains stability over wide temperature range, 166646
USSR all-Union scientific session devoted to radio day, 14941
see also Fluid amplifiers.
AMS, *see* Applied mathematics series.
Amu Darya River and Valley, basin, breeding of white amur (Ctenopharyngodon idellus (val.) and white and motley tolstolobiks (Hypophthalmichthys molitrix (val.) and Aristichthys nobilis Rich.), 4627
Amusement:
Agriculture Dept. provide year-round fun on farm and forest, publications list, 6775
entertainment expenses, rules for deducting from income tax, 2123
AMVETS, *see* American Veterans of World War II.
Amyotrophic lateral sclerosis, progress in research, summary, 2461
Anaconda, Mont., quadrangle, geology of northwest quadrangle, Deer Lodge County, 12013
Anaconda-Pintlar Wilderness, general information, 4435
Anadromous fish, *see* Fish and fisheries.
Anaheim, Calif.:
area wage survey, metropolitan area, 12212
commodity transportation survey, production area series, 8347
railroad accident, 12081
Anaktuvuk Pass, Eskimos, projected values of cesium-137 body burdens for summer 1965, based on findings in caribou muscle, 5115
Analog computers, *see* Electronic computers.
Analog-to-digital converters, ten-bith, general information, 17925
Analysis, *see* Chemical analysis—Dimensional analysis—Radiochemical analysis—*also* names of substances analyzed.
Analysts:
professional, scientific and technical information analysis center, Ad-Hoc forum—
directory, 12677
proceedings, 12676
see also Management analysts—Research analysts.
Analytical Mass Spectrometry Section, instrumentation and procedures for isotopic analysis, 15209
Analyzers, dissolved-oxygen analyzer for oceanographic use, final report, 12681
Anaphylactic schock, lethal outcome after intradermal test with penicillin, USSR study, 9127
Anaplasmosis, cattle, control, 16926
Anatomical and agronomic studies of phormium in western Oregon, 14150
Anatomy:
body movement, hypokinesia (deconditioning) in manned space flight as compared to chair rest from 4 to 10 days, 6811
human body density and fat measured by water displacement of adult male, 14235
Hungary, progress in past 20 years, translation, 12127
lower body negative pressure on cardiovascular system, effects, 12629
Anatoxins, USSR studies, 9133
Anchor-buttons, attachment technic for biomedical instrumentation lead wires, 99
Anchorage, Alaska, principal electric facilities, map, 7381
Anchors:
center hole, explosive expansion, 4791
screw, expandable insert serves, 9462

Ancient Arabic Order of Nobles of Mystic Shrine:
regulations for 1967 convention—
law, 17091
report, 15854
Anderson, Harold R., bubble theory of etiology of decompression sickness as related to high altitude exposure, 5326
Anderson, Arthur, relief, 15801
Anderson, B. A.:
surface water records to Dec. 31, 1963, index—
North Atlantic slope basin, 4515
Ohio River basin, 2096
St. Lawrence River basin, 2097
south Atlantic slope and eastern Gulf of Mexico basins, 2095
Anderson, Duwayne M.:
heat of freezing and melting of sea ice, 16956
migration, etc., of interlamellar water during freezing and thawing of Wyoming bentonite, 8243
Anderson, L. O.:
development of improved system of wood-frame house construction, 5993
houses can resist hurricanes, 4461
Anderson, Norman G., zonal centrifuges and ancillary systems for tissue fractionation and analysis, 15289
Anderson, Peter W., water quality characteristics of New Jersey streams, 12031
Anderson, R. A., effect of variety on accumulation of strontium-90 in wheats and their milled products, 2525
Anderson, Robert B., fracture mechanics of through-racked cylindrical pressure vessels, 6437
Anderson, Ruth, file organization for large chemical information system, 9554
Anderson, Sumner M.:
mineral industry of Chile, 7690
regional mineral industry review of Latin America, 9368
Anderson, William W.:
biological-statistical census of species entering fisheries in Cape Canaveral area, 779
field guide to Synodontidae (lizardfishes) of western Atlantic Ocean, 11967
shrimp and shrimp fishery of southern United States, 14654
Andersonville, Ga., bauxite occurrences in area, 2091
Andrastek, Donald A., cost, etc., evaluation of automated cargo delivery systems in Army aircraft, 14233
Andreassi, John L.:
biopotential signals as function of learning task difficulty, 5068
effects of induced muscle tensions, etc., on tachistoscopic perception, 9594
physiological correlates of learning and overlearning, 15251
Andrews, Archie M.:
addresses—
May 6, 1966, 10684
May 25, 1966, 10685
Andrews, Dean T., rural electrification in United States, 17934
Andrews, George W., late Pleistocene diatoms from Trempealeau Valley, Wis., 13409
Andrews, Gould A., radioactive pharmaceuticals, 12675
Andrews, H. J., Experimental Forest, *see* H. J. Andrews Experimental Forest.
Anemia, sickle cell anemia, summary of information, 3946
Anesthesia, *see* Anesthetics—Electronarcosis.
Anesthetics, monkeys, test, anesthetized by routine procedure, 1208
Angeles National Forest, children-with-matches fires, prevention, etc., 17695
Angelone, Alfonso, economical time standard for calibrating cardiotachometers and biologic data recordings, 8210
Angle of attack:
approximation reentry for spinning body from rate-gyro and accelerometer data, 12362
blunt body axisymmetric, direct method for calculation of flow about, 10951
cone, at angles of attack to 110° in helium, aerodynamic characteristics, 6420
ducted fan performance at zero angle for several fan blade angles, characteristics, 2416
flow over blunt body, inverse technique, 9419
Project Fire 1 payload, reentry flight, analysis, 7879
Angles, tool bit, multisurface fixture permits easy grinding, 9478
Anglo, Luis, relief, 15823
Angola, *see* Portuguese West Africa.
Angular acceleration measured by deflection in sensing rings, 9456
Anhydrators, *see* Dryers (industrial).
Anido, Guillermo, relief, 8718
Anilines, substitutions, interaction of chloral hydrate and hydroxylamine, 933
Animal industry, *see* Livestock.
Animal oils, *see* Oils.
Animal products:
carload waybill statistics, 6081
code of Federal regulations, 10486
trade and tariff information, summaries, 14045
Animal traps, manufacturers, list, 4427
Animals:
burned, toxic and serological shifts in blood, USSR study, 14879
carload waybill statistics, 6081
code of Federal regulations, 10486
comparative, veterinary, and primate cardiovascular research, 5026
drug amendments of 1965—
hearing, 11667
report, 15944
food for, from marine-animal products, firms canning, list, 778
genetics, research, Rumanian study, 6240
humane treatment, 5-cent commemorative postage stamp (poster), 6561
irradiating experimental animals, technique, USSR study, 9143
laboratory—
electronic integrator for quantitative evaluation of effect of pharmacological agents on motor function, USSR study, 953
endoparasites, 6809
live, Federal item identification guides for supply cataloging, supplements, 2939
NIH standard animal care equipment, 16805
oxygen, recent USSR studies, 7558
physiological reactions to space flight, USSR study, 13515
population dynamic patterns, contemporary problems, USSR study, 6180
psychopharmacology research handbook, 1431, 18069
small-animal payload, integration with sounding rocket, 15081
survival, following X-ray irradiation, effect of prophylactic administration of mucopolysaccharide preparation, USSR study, 6221
see also Diseases of animals—Food for animals—Game and game birds—Livestock.
Animas-La Plata project, Interior Dept. report, 15782
Anisotropic viscoelastic sandwich shells, 6344
Ann Arbor, Mich., commodity transportation survey, production area series, 9955

ANNA, *see* Satellites.
Annapolis, Md., *see* Naval Academy, Annapolis.
Annelids:
index-catalogue, 8134
Pilargidae (Annelida: Polychaeta), revision, 7939
Annett, John, use of cuing in training tasks, phase 2, 7971
Annette Island, Alaska, airport, Federal aviation regulations, 16265
Annuitants, *see* Civil service.
Annuities:
Foreign Service retirement and disability system, adjustments, law, 410
payable from Foreign Service retirement and disability fund, increase, report, 16157
railroad retirement act—
adjustments—
hearing, 11666
reports, 15947, 17532
supplemental benefits—
hearing, 17384
reports, 15945, 17531
trusts, tax exemption, procedures and guides for qualification under internal revenue code, 14779
see also Civil service pensions—Pensions.
Annus, Louise K., access to airports, 17645
Anodization process produces opaque reflective coatings on aluminum, 1212
Anomalies:
gold geochemical, Cortez district, Nev., 14751
southwestern Sakhalin, nature of gravity, USSR study, 14805
Anopolopoma fimbria, *see* Sablefish.
Anorthosite, extraction of alumina by leaching in sulfuric acid, 9369
Anrrich, Rafael, relief, 11710, 15678
Ansley Wilcox House, acquire and preserve as historic site, reports, 505, 17542
Anspach, S.C., half lives of materials used in preparation of radioactive nuclides issued by NBS, 1294
Antarctic regions:
aerial-photographic, topographic-geodetic and cartographic work of Soviet Union, 14866
aerology in polar regions, USSR study, 1029
aerometeorological research during IGY, USSR study, 982
Antarctic journal of United States, 5048
atmospheric radioactivity, 6551
bibliography, 1099
geology and physiography aspects, 8249
medical service for members of Soviet Antarctic expeditions, USSR study, 6108
Navy marine climatic atlas, 9600
polar snow, physical and mechanical properties, 8234
radio rangefinders, experience in working with, USSR study, 16482
sea ice, strength studies, 119
seismological bulletin (periodical), 2680
sixth continental expedition, 1960–62, description and scientific results, USSR, 10818
snow studies, 8238
Soviet research in Antarctica, 16445
support for science, 2503
U.S. Antarctic Projects Officer, bulletin, 2712
United States operations, 11829
Antarctica, *see* Antarctic regions.
Antelopes, pronghorn, conservation note, 10529
Antennas:
buried, USSR study, 13570
configurations provide polarization diversity, 6392
Antennas—Continued
cut-back factor for LF radio waves, computations, 6480
equilibrium shape of array of long elastic structural members in circular orbit, 7820
massive, modified hydraulic braking system limits angular deceleration to safe values, 13746
near-zone field, plasma effects, 16616
nonreciprocal circular polarizer, 1361
omnidirectional, transmit and receive over large bandwidth, 7787
radiation from slot antenna in ground plane covered by warm plasma layer, 12366
short wave, USSR study, 4648
structures, construction, lighting, and marking, FCC rules and regulations, 2919
table of radiation characteristics for uniformly spaced optimum endfire arrays with equal sidelobes, 2451
theory, application of wedge diffraction, 4827
USSR all-Union scientific session devoted to Radio Day, 13560
Anthocephalus cadamba, *see* Cadam.
Anthony, Willis E.:
decentralization in livestock slaughter industry, 10408
structural changes in federally inspected livestock slaughter industry, 5863
Anthracite, *see* Coal.
Anthracite mines, *see* Coal mines and mining.
Anthracite region, strip-mine spoils, planted forest trees, survival and early growth, 10600
Anthrax:
bacillus, variability in natural conditions, USSR study, 16423
causative agent, experimental infection of gamasid ticks, USSR study, 13454
studies on B. anthracis and B. cereus antigens by means of fluorescent-serological and cytochemical techniques, USSR, 10833
Anthropologists:
employment outlook, 13594
examination announcement, 12758
Anthropology:
anthropological papers—
departmental edition, 9880
document edition, 10097
Asian countries, materials and research, USSR study, 12099
coastal Ecuador, early formative period, Valdivia and Machalilla phases, 6499
Smithsonian contributions, 6499
Anthropometry:
air traffic control trainees, 6874
human body density and fat measured by water displacement of adult male, 14235
Antiaircraft artillery, *see* Artillery.
Antibiotics:
effect on immunological specificity of host proteins, USSR study, 7620
sensitivity and phage type of staphylococci isolated from monkeys and their human handlers, 8207
treatment for control of comandra rust on lodgepole pine, evaluation, 15436
USSR production given impetus, 7619
Antibodies, *see* Antigens and antibodies.
Anticholinesterase, properties of phosphinates, USSR study, 892
Anticonvulsants, *see* Convulsions.
Antidepressive agents, pharmacologic side effects, 5325
Antidetonators, *see* Detonators.
Antidotes, *see* Poisons.
Antifriction bearings, *see* Bearings (machinery).

Antigens and antibodies:
antigen concentration and nonreacting additives influences on mobility and diffusion in immunoelectrophoresis, 12646
B. anthracis and B. cereus antigens studies, by means of fluorescent-serological and cytochemical techniques, USSR, 10833
precipitin response to human serum by rabbit population, 8218, 9870
responses in rhesus monkey, 95
Antilles, light list, 6991
Antimechanized operations, 2309
Antimony:
lead-antimony grid alloys, intergranular corrosion, investigation, 16763
minerals yearbook chapter, 14999
primary, mineral industry survey, quarterly, 2681
Antipoverty program, *see* Poverty.
Anti-religious education, *see* Religious education.
Antisubmarine Warfare Environmental Prediction Services ASWEPS manual series, 12410–411, 13900
Antitrust Division, regulatory and enforcement activities relating to small business, hearings, 15990
Antitrust laws, *see* Monopolies—Trusts (industrial).
Antitrust Subcommittee, Judiciary Committee, House, publications, index, 7154
Anti-Vietnam agitation and teach-in movement, problem of Communist infiltration and exploitation, 1885
Ants:
control in home and garden, 6745
language of ants, USSR study, 917
Aorta, blood velocity computed from pressure pulse, 15495
Apache Indians:
Apache Tribe of Mescalero Reservation, convey lands held in trust to—
law, 11554
reports, 5657, 10310
Apanasewicz, Nellie:
Eastern Europe education, bibliography of English-language materials, 11870
education in Bulgaria, 638
textbooks for Soviet schools, 14565
Aphids:
balsam wooly aphid eggs, collection techniques, 14710
parasites of, portable field cage for mass culturing, 9774
see also Plant lice.
Aplite, minerals yearbook chapter, 15005
Apnea, *see* Respiration.
Apollo Project, *see* Project Apollo (man-in-space program).
Appalachian region:
central, air-drying practices of lumber, 17703
coals, survey of sulfur reduction by stage crushing, 6288
development act of 1965—
hearings, print additional copies, reports, 5759, 10203
law, highlights, 529
section-by-section analysis, print additional copies, report, 10201
distribution of minor elements in coals, 13393
family chicken flock, 11355
growing vegetables, 12602, 15445
hillside pasture, 12606, 15447
mental health in Appalachia, problems and prospects in central highlands, report, 5028
stream quality, as related to coal-mine drainage, 7481
strip and surface mining study, report, 16379
Appalachian Regional Commission:
annual report, 6821
Appalachian Regional Commission—Con.
appropriations, 1967, hearings, 8651, 13193
establish—
analysis of bill, print additional copies, report, 10201
hearings, print additional copies, reports, 5759, 10203
law, highlights, 529
report of Health Advisory Committee, 15499
Apparatus measures thermal conductivity of honeycomb-core panels, 7783
Apparatus tests, tensile strength, applies high strain-rate loading with minimum shock, 6389
Apparel, *see* Clothing.
Appeals, appellate review of sentences, provide, hearings, 10352
Apples:
commercial, production by varieties, 1965, with comparisons, 2593
entering Netherlands, certification for possible transshipment, 12586
sorting and sizing—
before storage with prototype hydrohandling system, 14112
storage in pallet boxes, development of hydrohandling system, 11357
Appleseed, Johnny, 5-cent commemorative postage stamp (poster), 15260
Appliances, *see* Electric apparatus and appliances—Household appliances.
Applied mathematics series, 7908
Applied Research and Engineering, Ltd., conceptual design of 50 MGD desalination plant, 10662
Appomattox Court House National Historical Park, general information, 2471
Apportionments, State legislatures, report, 5776
Appraisers, Indian lands, Justice Dept. need to improve contracting procedures, GAO report, 13374
Apprentices:
automobile mechanic—
body repairman and painter, apprenticeship and training standards, 14201
trucks, tractors, etc., apprenticeship standards, 11388
bricklaying apprenticeship, program and standards, 15501
careers in apprenticeship, 16954
dental laboratory technicians, apprenticeship and training policy, 106, 14200
national apprenticeship program, 15500
Apprenticeship and Training Bureau, what it is, what it does, how it can serve you, 5337
Apprenticeships, *see* Apprentices.
Approach, naval aviation safety review, 2684
Appropriations:
authorizing legislation, 578
general Government matters, 1967, continue—
laws, 395, 15704, 17110
reports, 1836, 15856, 17242
legislation authorizing appropriations and establishing revolving funds, 1886
legislative, 1966, supplemental, proposal, 7070
legislative, 1967—
amendments, 8502, 8508, 11609, 11699
hearings, 11641, 16171
law, 15727
reports, 10224, 13168, 14395
statements, 89th Congress, 1st session, 1884
supplemental, 1966—
hearings, 7116, 8765
laws, 411, 10077
proposals, 5610, 8688
reports, 8549, 8637, 8745
supplemental, 1967—
hearings, 15960, 17569
reports, 17319, 17323, 17351, 17559

Appropriations—Continued
see also Government offices—*also* subjects, or names of departments, etc., for which appropriations are made.
Appropriations Committee, House:
hearings, 507, 4120, 5681, 7111–16, 8648–51, 10228–229, 11641–642, 13013–14, 14408, 15955–960, 17357–358
reports, 1836, 5679, 8549, 8592, 8598, 8614, 8626, 8638, 10224, 12914, 15856, 15907–908, 15914–915, 15938, 17242, 17319
Appropriations Committee, Senate:
hearings, 5797, 8763, 8765, 10322, 11787, 13193, 14471–472, 16170–173, 17566–569
reports, 545, 7184, 8745, 10281, 13122, 13152, 13168, 16090, 16094, 16151, 16159, 16165, 17513, 17520, 17539, 17559
Approximate theories of pneumatic wave generators, hydraulic laboratory investigation, 10442
Approximations:
discrete fields, application of digital computers, USSR study, 12158
transfer function, for large highly coupled elastic boosters with fuel slosh, 9433
Apricots, production, use, value, 1964–65, by States, 15379
APRO, *see* Army Personnel Research Office.
APT, *see* Automatic picture transmission.
Aptitude tests:
Air Force Academy cadets, class of 1966, predicting 1st year achievement, 8198
airman qualification examination general aptitude index, use for estimating reading ability level, 8199
Army, differential classification tests for ACB (Army classification battery), evaluation, 1673
Army, experimental tool and trade knowledge tests, validation, 3840
differential tests, comparison with airman qualifying examination, 15488
full regression equations vs. aptitude area scores in allocation of enlisted men, 8275
general test battery—
guide to use, separate answer sheet form, administration and scoring, 1986
norms, occupational aptitude pattern structure, manual, 16246
norms, specific occupations, manual, 16247
officer selection and classification tests, 1966, development, 15487
Project Talent, progress toward goals, 651
recruiter-salesman selection test, validation, 8200
selection battery for Army image interpreters, development, 9915
sequential decision making task, timeliness and accuracy, 8274
USES tests, program research on effectiveness of counseling techniques, 1989
Aqua-Chem, Inc., conceptual design of 50 MGD desalination plant, 12042
Aquatic animals, morphological features, USSR study, 14921
Aquatic sciences, *see* Science.
Aquatic weed control studies, 8010
Aquifers:
artesian glacial-drift, Kalamazoo, Mich., induced recharge, 13416
hydrology of aquifer system (series), 12022
recharge studies on High Plains in New Mexico, 10650
wedge-shaped, drained by streams, measurement of hydraulic diffusivity, 13408
Arabian Peninsula, geology, 17722–723
Arago, AIC 60C, lunar chart, 14180
Aral Sea:
carp, ecologo-neorphological characteristics of early stages of Pelecus cultratus (L.), USSR study, 13573
Aral Sea—Continued
diet of bream fry, early developmental stages, USSR study, 2276
herring gull, ecology and piscicultural significance, USSR study, 4632
Aransas National Wildlife Refuge, general information, 14658
Arapaho National Forest:
revise boundaries—
law, 11555
reports, 5672, 10308
Arbitration, *see* Industrial arbitration.
Arboleya, Carlos J., relief, 8701
Arc (electric), *see* Electric arc.
Arc tunnels, *see* Wind tunnels.
Arc welding, *see* Welding.
Archeology:
archeological research series, 13875
coastal Ecuador, early formative period, Valdivia and Machalilla phases, 6499
publications—
salvage archeology, 16827
price list, 16787
salvage, Fire Heart Creek site, 16827
Archer, J. S., analytic longitudinal response analysis for axisymmetric launch vehicles, etc., 4808
Arches National Monument, general information, 11120
Architect of Capitol:
appropriations, 1966, supplemental, proposal, 7070
appropriations, 1967, legislative—
amendment, 11609
hearings, 11641, 16171
law, 15727
reports, 10224 ,13168, 14395
report, semiannual, 5719, 14449
Architects:
employment outlook, 9209
looking for architects, fill your needs through Professional Placement Network, 11887
see also Landscape architects.
Architecture:
architectural-engineering documents for health research and facilities construction grants, guidelines, 15267
Army medical facilities, design, technical manual, 8264
changes, 9907, 14224
definitive designs for naval shore facilities, 1567–68
dynamic strength ratio as limiting parameter in shock design, 6553
Navy design manual, changes, 6707
PACAF basic bibliographies, supp. 1, 5319
packaged disaster hospital, readiness plan, 13971
preschool facilities, planning, 11878
rigid pavement design for military airfields, 11894
schools built with fallout shelter, 5515
thin-shell construction, structural design, Army technical manual, 1651
Wisconsin, historic American buildings survey, 13882
Archives, National Oceanographic Data Center, data inventory, 7953
Arcoverde, Brazil, marshes of Serra das Varas, 9165
Arctic Aeromedical Laboratory, technical reports 76–82, 3780–83, 5312–15, 6797–99, 9857–60
Arctic Ocean:
Lights and fog signals, list, changes, 2483, 7960, 12408
Soviet, lunar-solar semi-monthly and monthly tides, USSR study, 14798
Arctic regions:
aerology in polar regions, USSR study, 1029
and subarctic construction site selection and development, Army technical manual, 14226
bibliography, 5841

239–221—67—No. 863——9

Arctic regions—Continued
biology and medicine symposia, proceedings, 14185
building foundations, 12663
cold regions of Northern Hemisphere, defining, 16958
construction, calculation of depths of freeze and thaw in soils, Army technical manual, 5374
construction, general provisions, 9908
cross-country travel, energy cost, 3783
emergency construction, technical manuals—
general provisions, 14227
site selection and development, 14228
environmental health series, 5104
geology and physiography aspects, 8249
high polar ice sheets, measurement of natural particulate fallout, laboratory techniques and results, 8235
ice cover of proglacial lake, 9887
northeast to Arctic, pamphlet, 1632
subsurface transportation methods in deep snow, 8246
water production in polar ice cap by utilization of waste engine heat, 8247
see also Subarctic region.

Are you planning on living rest of your life?, 1570

Are you sure? guide for supervisors in employment of the handicapped, 10851

Area designation status report, 3552

Area handbooks:
Malaysia and Singapore, 9896
Morocco, 11401
Pakistan, 9897
Peru, 1646
Syria, 5366

Area measurement reports, 1696–97, 15563

Area-oriented multiple use analysis, 8971

Area redevelopment, *see* Redevelopment (city planning, etc.)—Rural redevelopment.

Area redevelopment act, *see* Unemployed.

Area Redevelopment Administration:
accelerated public works program, local employment created, GAO, 6011
annual and final report, 3806
directories, approved projects, 2685
press releases, 3343
technical assistance, cumulative report, quarterly, 3438

Area trends in employment and unemployment (periodical), 2687

Area wage surveys, *see* Wages.

Ares y Fernandez de Bosch, Myriam, *see* Bosch, Myriam.

Aresco, Sebastian J., analyses of tipple and delivered samples of coal, 12250

Argentic oxysalt electrodes, 4952

Argentina:
Argentina-Uruguay boundry, study, 15342
foreign trade regulations, 10027
loan of destroyers, law, 426
mineral industry, minerals yearbook chapter, 10911

Argon:
bromine dissociation rates, shock-tube investigation, 13821
dilute, viscosity and thermal conductivity coefficients between 100 and 2000° K, 13865
gas, partially ionized, effects of magnetic field on heat transfer, 6436
purge gas cooled by chill box, 9465
reaction of coal in argon and argon-hydrogen plasmas, 15030
resonant charge exchange cross sections, measurements, 4980

Argulus, *see* Copepods.

Argyle, Tex., railroad accidents, 12086

Ariel, *see* Satellites.

Arino, H., research in activation analysis, 6856

Aristichthys nobilis Rich., motley tolstolobiks, breeding in Amu Darya River basin, 4627

Arithmetic, elementary, and learning aids, 4301
see also Ratio and proportion.

Arizona:
and California, boundary survey, 3994
Apache Soil Conservation District, Hereford cattle at summer-range stock-water development (colored poster), 9662
California boundary compact, consent of Congress—
law, 15714
report, 13125
cattle ranches, economic and operational characteristics, 5866
census of business, 1963, retail trade, area statistics, errata, 186
census of manufactures, 1963, area statistics, 14250
climatological data, 2751
congressional districts, 90th Congress, 15608
Corduroy Creek basin, effects of juniper and pinyon eradication on streamflow, 10643
county business patterns, 225, 16999
electric rate book, 704
Indians, general information, 12041
life tables, 18010–11
manufacturing plants, location by county, industry, and employment size, 1963 census, 14260
mineral industry, minerals yearbook chapter, 2321
nonpegmatitic beryllium occurrences, 15029
ponderosa pine forest, use by deer, elk, and cattle, 13365
precipitation data, hourly, 3045
spruce-fir forests, use of openings by elk, deer, and cattle, 13368
water, 9021
water supply outlook and snow surveys, 3687
water table characteristics under tamarisk, 4453
see also Papago Reservation.

Arkansas:
census of manufactures, 1963, area statistics, 15567
climatological data, 2751
congressional districts, 90th Congress, 15601
county business patterns, 1713
iron and steel scrap, 9360
life tables, 18011
Lonoke County Soil and Water Conservation District, contour irrigation of rice fields (colored poster), 9663
manufacturing plants, location by county, industry, and employment size, 1963 census, 16996
mineral industry, minerals yearbook chapter, 1115
northern, low-flow characteristics of streams, 6032
precipitation data, hourly, 3045
soil survey laboratory data and descriptions, 16839
southern, low-flow characteristics of streams in Mississippi embayment, 10641
women, labor laws, summary, 14088

Arkansas Post National Memorial:
development, increase authorization—
law, 15713
reports, 10184, 13163

Arkansas River and Valley:
hydrology of alluvium, Muskogee, Okla. to Fort Smith, Ark., 6040
lock and dam no. 6, name David D. Terry Lock and Dam, law, 438
spillway for typical low-head navigation dam, gate sills and stilling basins for locks and dams, 5 and 7, 1991
water supply outlook and snow surveys, 3688

Armaments, *see* Munitions.

Armed Forces:
additional accumulation of leave in certain foreign areas, hearings, 14410
appropriations, 1966—
military procurement, report, 17198
supplemental, military procurement and construction—
hearings, 5797, 7117
law, 7031
reports, 566, 5757, 7079, 7083
appropriations, 1967, military procurement—
hearings, 8766, 10232, 11593
reports, 8644, 8744, 12930
Armed Forces Day, 1966, report, 8795
armed services procurement manual ASPM (manual), 7252
before you report for active duty, 3808
civilian and military personnel, imported household and personal effects, customs requirements, 16205
commander's guide to ready men and ready materiel, 11403
commercial air transportation for service personnel on authorized leave, hearings, 17363
commissioned officers in combat zones, increase combat pay exclusion—
message from the President, 17162
report, 17307
defense procurement circular, 2845
defense supply procurement regulation, revision, 2846
dependency and indemnity compensation for survivors, amend U.S. code, report, 17203
dependents—
Defense Department, education overseas, report, 7132
medical benefits, hearings, 8652
enlisted personnel, assignment to nonmilitary activities, GAO report, 4502
excess payments by servicemen on loan accounts, 1849
FHA and home-buying serviceman, 698, 13319
Germany, Federal Republic, support in United States in emergencies, agreement, 6651
health benefits program for retired members and dependents—
hearings, 13195
reports, 7105, 8612, 16091
legislation affecting, 89th Cong., 1st sess., hearings, title page, contents, and index, 1845
legislation enacted in 1965 relating to servicemen, 6609
mailing privileges, provide—
law, 417
report, 489
mailing privileges, provide better overseas service—
hearings, 7157, 11827
reports, 7094, 17284, 17475
Marine troop leaders guide, 16547
members—
additional accumulation of leave in certain foreign areas, report, 12968
dependents, deceased, transportation at Government expense, amend U.S. Code, report, 1920

Armed Forces—Continued
members—continued
motor vehicles, transportation at Government expense, amend U.S. Code—
hearing, 14409
report, 12938
permit assignment to Environmental Sciences Services Administration—
law, 17149
reports, 17219, 17512
retirement in highest grade satisfactorily held, amend U.S. code, report, 12935
uniformed services, joint travel regulations, 1962
voluntarily extending tour of duty in hostile fire area, authorize special 30-day period of leave, reports, 12969, 17509
methods for improving enlisted input, current research activities, 15524
military personnel, recruiting, consolidation of field organizations and facilities, GAO report, 10622
NATO status of forces treaty, criminal jurisdiction operations—
hearing, 17572
report, 17561
nonappropriated fund employees, place under longshoremen's compensation act as extended, 13285
obstructing in time of undeclared war, make punishable, hearings, 15994
officer's career for women, 11847
officers professionally trained, constructive service credit, report, 12863
postal services—
review of 7025 Air Postal Group, Europe—
hearing, 4143
reports, 5638, 17258
Vietnam and Thailand, on-site inspection, report, 17258
procurement regulation manual for contract pricing, 7352
procurement regulations, 10382
revisions, 2688
retired members, employment under dual compensation act, report, 7158
right job, guide for returning servicemen, 12553
savings, deposits of members serving outside U.S., improve program—
law, 15721
reports, 12921, 13180
servicemen—
5-cent commemorative postage stamp (poster), 16783
group life insurance, handbook, 14063
purchasing and financing problems, hearing, 17367
social security, 6606
soldiers' and sailors' civil relief act, as amended, text, 1872
status of forces in Republic of China, agreement, 14032
trophies, award, authorize—
law, 15712
reports, 11632, 13175
unified action, principles, doctrines, etc., covering, 9061
uniformed services retirement pay, election of annuity for survivors, income tax treatment—
law, 5590
report, 5768
USSR, regulations concerning chemical, medical, and sanitary services, 960
voting information, 107
women, 14204
women officers, remove promotion restrictions, etc., amend U.S. Code, report, 15949
see also Pay, allowances, etc.—Reserve components of Armed Forces.

Armed Forces Day, 1966, Armed Forces report, 8795
Armed Forces Industrial College, *see* Industrial College of Armed Forces.
Armed Forces Information and Education:
DOD pamphlets, 107, 3807–8, 5338, 6823, 8222–23, 9882, 12648, 14203–205, 15502
voting information bulletin, 5339
Armed Forces Institute:
catalog, 3807
correspondence courses offered by colleges, etc., DOD pamphlets, 14203, 15502
manual, 11840
supply announcements, 16215
supply brief, 10397
supply notes, 5857
textbooks, 5842
Armed services, *see* Armed Forces.
Armed Services Board of Contract Appeals, operation and effectiveness, hearings, 11833
Armed Services Committee, House:
activities, 89th Congress, 1st session, 1965, report, 509
additional employees, report, 4110
calendar, 3112
Carl Vinson Room in Rayburn House Office Building, dedication ceremony, print as House document, report, 502
committee prints, 508, 1846, 5684–85, 14408A
hearings, 1845, 4121, 4123, 5683, 7117–21, 7124, 8652–56, 10230, 10232, 11643–644, 11789–791, 13015–20, 14409–412, 15962, 17359–361, 17363–364
interim report, 13021
military airlift, special subcommittee report, 10231
pay and allowances of uniformed services, compilation, 7125
report of Special Subcommittee on Tactical Air Support, 4122
reports, 1842, 5666, 5673, 7105, 8578–90, 8593, 8644, 10141, 10147–153, 10180, 11616, 11627–628, 11631–632, 12863, 12921, 12935–939, 12965–970, 12991–992, 12995–996, 15838–39, 15861, 15949, 15961, 17182, 17219, 17225, 17253, 17267, 17362, 17365
subcommittee reports, 7122–23, 8657
universal military training and service act, as amended, with analysis, 5682
Armed Services Committee, Senate:
calendar, 3131
hearings, 569–570, 5797, 7204, 8766–67, 10323–325, 13194–196, 16174–176, 17570–572
investigations and studies, authorization, report, 4175
reports, 548, 1920, 4172, 5757, 7185–86, 8742, 8744, 8749–58, 10306, 11736, 11753–757, 11771, 13121, 13174–177, 13180–181, 16089, 16091, 16128, 16164, 17466, 17492–494, 17508–512, 17516, 17561
Armed services papers, 509, 4121–22, 5682–83, 7117–24, 8652–57, 10230–232, 11643–644, 13015–21, 14409–412, 15961–962, 17359–365
title page, contents, and index, 1845
Armenian Soviet Socialist Republic, meeting of AKTIV of party organization, 10758
Armijo, Larry, statistical properties of radar echo patterns and radar echo process, 12563
Armored force, cavalry regiment, field manual, 11399
Armored tanks, *see* Tanks.
ARMS, *see* Aerial radiological measuring survey.
Arms (firearms), *see* Firearms—Munitions.
Arms control, *see* Disarmament.
Arms Control and Disarmament Agency:
annual report—
departmental edition, 8226
document edition, 8493
appropriations, 1967—
hearings, 15955, 17567
reports, 15938, 17348, 17539
conference developments and supporting activity, report, 1857
research report, 8227
telephone directories, 1493, 11260, 15344
Armstrong, Arthur A., jr., radiation-induced oxidation of hydrocarbons, 5396
Army:
aircraft—
automated cargo delivery systems, cost, etc., evaluation, 14233
fundamentals of electricity, 8271
Airmobile Division, troop topics, 1644
aviation—
company, field manual, 11398
digest, 3639
meteorology applicable, technical manual, 11404
training, prediction of success, 3843
combat readiness, hearings, 11791
enlisted personnel—
differential classification tests for ACB (Army classification battery), evaluation, 1673
dining facilities, technical manual, 14225
electronics information tests, 5377
optimal allocation, full regression equations vs. aptitude area scores, 8275
experimental tool and trade knowledge tests, validation, 3840
facilities, basic criteria and construction standards, technical manual, 14222
field, support command, field manual, 121
food, preparation and serving in garrison mess, technical manual, 8265
history, painting exhibit at Pentagon, 14213
image interpreters, selection battery, development, 9915
information digest, 2690
installations and major activities in continental U.S., lists, 6837, 16960
Judge Advocate legal service, pamphlets, 122–124, 1643, 5352–53, 5355–59
semiannual index, 5354
Korean War, truce tent and fighting front, 13668
logical model representing personnel flow relative to reduction of turbulence, USAPRO technical research notes, 3839
marginal man and military service, review, 8255
medical facilities, design, technical manual, 8264
changes, 9907, 14224
military police support, 16959
officer candidate school, general information, 12665
officers, career planning, 1647
organizational, technical and logistical data, staff officers' field manual, extracts of tables of organization and equipment, 3823
pathfinder operations, field manual, 8254
personal affairs handbook, pamphlet, 15512
personnel, unit officer's guide, pamphlet, 9898
procurement legal service—
cumulative index-digest, tables of materials digested, pamphlet, 12657
pamphlets, 5367, 9899, 11402, 12658, 15513
procurement procedure, changes, 114, 11392
programs, value engineering, pamphlet, 8228
readiness, REDCAT, REDCAPE, and REDCON ratings, 9895

Army—Continued
recruiting and career counseling journal, 3457
register, Jan. 1966—
departmental editions, 11409–410, 12866
document editions, 11601–602, 12850
research and development magazine, 2691
safety, unit management, 6841
scientific information activities, 11137
troop topics, 1644, 9895
United States Army in World War II, 9358, 10907, 13669
USSR—
troop instruction on combat readiness, 1024
troops, spiritual strength and revolution in military affairs, 1038
see also National Guard—Retired officers, etc.
Army Audit Agency bulletin, 3628
Army Aviation Materiel Laboratories:
interim reports, 1634, 3813, 5342–43, 6827, 8231, 9885
technical reports, 135–139, 1659–72, 3836–38, 8272–73, 14232–233, 15522–523
list, 9912
Army Department:
aircraft grounded because of lack of repair parts, GAO report, 805
appropriations, 1966, amendments, 17403
appropriations, 1967—
military construction, hearings, 11642
public works—
hearings, 10229, 16173
reports, 15914, 16165, 17275
Army regulations, 115, 3814, 8232, 15504
Assistant Secretary, nomination of Russell D. O'Neal, hearing, 17571
Capehart, Wherry, and other Government-owned family housing, management and utilization, GAO review, 7474
chiefs and executives, organization chart, 3036
civilian personnel pamphlets, 6828–29, 11394
field manuals, 120–121, 1640–41, 3821–23, 5346, 6834, 8250–54, 11398–399, 12651–653, 16959
Finance Center, Fort Benjamin Harrison, Ind., improvement in administrative audit of accrued-leave payments to re-enlistees, GAO report, 2082
financial statements of Columbia River Federal Power System, GAO report, 16342
grievances, supervisor development program, 6828
helicopter detachable ground handling wheel assemblies procurement, GAO review, 17713
idle ammunition production facilities, readiness, status, GAO report, 10628
maintenance of combat vehicles, GAO review, 14736
management analysis, pamphlet, 6836
management intern program, 3825
military law review, pamphlet, volumes 1–10, selected reprint, 3826
pamphlets, 122–126, 1643–47, 3827–29, 5349–67, 6835–42, 8256–59, 9894–99, 11400–403, 12654–658, 14214–219, 15511–513, 16960–961
prices negotiated on contracts for ammunition and weapons components, GAO review, 8997
provisioning techniques, technical manual, 133
publications, price list, 12457
reporting of taxable income and tax withholdings of military personnel, GAO report, 13382
tanks, equipment modification program, GAO report, 12003
Army Department—Continued
technical bulletins, 5368, 15514
technical manuals, 127–134, 1648–58, 3831–35, 5369–75, 6844–48, 8262–71, 9901–11, 11404–408, 12660–664, 14222–231, 15515–521, 16962–966
within-grade increases and employee productivity, supervisor development program, 6829
Army Engineer Division, North Pacific, technical report, 11890
Army Engineer Research and Development Laboratories, news releases, 3359
Army Geodesy, Intelligence and Mapping Research and Development Agency, news releases, 3359
Army hospitals, *see* Military hospitals.
Army Human Factors Research & Development Conference, 1965 proceedings, 5376
Army Library:
catalog of books on American Civil War, 5257
periodicals currently received, checklist, 12577
special list, 5257
Army Map Service, inventories, management, GAO report, 7475
Army Materiel Command:
AMC pamphlets, 111–113, 3810–11, 5340–41, 6826, 8228–30, 9883–84, 11390–391, 14208–209, 16955
AMC publications, military, index, 5340
contractors guide for civilian agencies seeking business, 5345
reports, register of approved recurring reports, 111–112, 3810, 11390
safety digest, pamphlets, 6826, 11391
scientific information activities, 5050
Army Medical Research and Nutrition Laboratory:
Fitzsimons General Hospital, report, 14235
reports and reprints, bibliography, 5379
Army Medical Service, annual report, 1962 fiscal year, 16968
Army Missile Command, Nike-Hercules missile launching and handling rails, management control, GAO report, 17707
Army National Guard, *see* National Guard.
Army Nurse Corps, *see* Nurse Corps, Army.
Army officers, *see* Army.
Army Personnel Research Office:
research publications, 1965, abstracts, 3842
USAPRO technical research notes, 1673, 3839–42, 5377, 8274–75, 9914, 12667, 14234
USAPRO technical research reports, 3843, 9915, 15524–525, 16967
Army posts, *see* Military posts.
Army rations, *see* Rations.
Army Research Office, scientific research grants, general information, 11393
Army Research Office (Durham):
report, 9886
research in progress, 9900
Army Reserve:
Army Reserve magazine, 2692
officer candidate school, general information, 12665
officers, active duty retirement benefits, GAO report, 13378
personnel, training, equipment, and readiness status, hearing, 8767
Army Security Agency, enlistment brochure, 9913
Army Supply and Maintenance Command, reports, register of approved recurring reports, 3830, 8261
Army Transportation Engineering Agency, USATEA reports, 5378, 9916
Arnett, Ross H., jr., species of Oedemeridae of Big Bend region of Texas, 2469
Arnhoff, Franklin N., National Institute of Mental Health student research stipend program in social work, 15290

Arnold, Charles J., relief, 12888
ARO, *see* Aerospace Research Office.
ARO—D report, 9886
Aronson, Elliot, unemployment and retraining, annotated bibliography of research, 2285
Around the corner, preparing today's students to meet tomorrow's world problems, 14030
Array theorem, *see* Antennas.
Arresters, *see* Lightning arresters.
Arrowhead Regional Conference on Status of Women in Northern Minnesota, report, 14096
ARS, *see* Agricultural Research Service.
ARS series, 8–12, 1574–75, 3726–35, 5264–71, 6709–14, 8124–32, 9772–90, 11337–338, 12579–585, 14100–113, 15434
Arsenic, radiochemistry, 1678
Arsenic compounds (organic):
  nitchromazo for titrimetric microdetermination of sulfur, USSR study, 13539
  see also Biological products.
Arsonium compounds, mercurated salts, USSR study, 16415
Art, Robert J., American foreign policy, 1962 current documents, 12514
Art:
  fine, use of computers, USSR study, 10765
  National foundation on arts and humanities act of 1965, summary, 4537
  public elementary and secondary schools, instruction, financial assistance, 8843
  significance of form, USSR study, 7631
  Von der Heydt collection, transfer title to Smithsonian Institution—
    law, 12828
    reports, 5777, 12927
  works of art and other objects in United States Capitol, compilation, 5597
  see also Paintings.
Arteriosclerosis, hardening of arteries, cause of heart attacks, 9625
Arthritis:
  and rheumatic diseases abstracts, 2693
  health information series, 2529
  report, Surgeon General's Workshop on Prevention of Disability from Arthritis, 13989
  highlights, 13957
  source book, 13958
  see also Osteoarthritis—Rheumatoid arthritis.
Arthropods, index-catalogue, 8134
Arthur, C. E., radioactive contamination resulting from use of nuclear explosives for stimulating petroleum production, 1158
Arthur Holly Compton Laboratory of Physics, dedication (remarks), 8298
Artificial kidneys:
  bibliography, 13980
  parotid fluid uric acid responses to probenecid administration and to hemodialysis, 9874
  research and development program, opportunities for participation, 13980
  what it is, how it works, etc., 2521, 18000
Artificial satellites, *see* Satellites.
Artillery:
  air defense—
    engagement simulator, Army field manual, 5346
    weapons systems, qualification program, Army Dept. field manual, 12653
  field—
    battalion Little John, Army Dept. field manual, 12651
    cannon gunnery, Army field manual, 6834
Artists:
  brushes, Federal standard, 4395
  commercial, employment outlook, 9223
Arts, Advisory Committee on, *see* Advisory Committee on the Arts.
Arts and crafts, manual arts and crafts, PACAF basic bibliographies, 5321
Arts and Industries Building, Smithsonian Institution, guide book, 16824
Aryl compounds, polyarylates, USSR study, 2249
Arzhak, Nikolay, *see* Daniel', Yu.
Asaad, Blanche, L., relief, 8714, 17080
Asaad, Ezzat N., relief, 8713, 17079
Asbell, Bernard, National Conference on Education of the Disadvantaged, proceedings, 13275
Asbestos:
  amosite, disposal from national and supplemental, stockpiles—
    hearing, 10325
    law, 10073
    reports, 8588, 8756
  crocidolite (harsh) disposal from supplemental stockpile—
    hearings, 11643
    law, 11572
    reports, 10151, 11756
  minerals yearbook chapter, 17833
  products, census of manufactures, 1963, industry report, 5445
  workers, employment outlook, 9261
Ascorbic acid, protection against inactivation of lysozyme and adolase by ionizing radiation, 1625
ASCS, *see* Agricultural Stabilization and Conservation Service.
ASCS background information BI series, 6720–37, 9800–2
Asepsis, maintenance in hospitals design features affecting, 7997
Ash, William J., raising ducks, 6744
Ashby, Lowell D.:
  growth patterns in employment by county, 1940–50 and 1950–60—
    Far West, 14247
    Great Lakes, 8322
    Mideast, 5437
    New England, 5436
    Plains region, 12693
    Rocky Mountain, 12696
    Southeast, 12694
    Southwest, 12695
Ashizawa, Roy Y., mineral industry of Hawaii, 1124
Asia:
  Asian, Latin American, and African peoples tricontinental conference, staff study, 10358
  central—
    atmospheric turbidity, USSR study, 1004
    fish reserves in reservoirs, USSR conference, 10787
    fishery resources, convention, 12163
    hydrobiological research, USSR study, 9147
    runoff of mountain rivers, problems of foresting, USSR study, 6216
    statistical structure of wind field, USSR study, 14877
    wandering of rivers and lakes, USSR study, 1061
  cooperative development program (remarks), 14052
  east and south, agricultural production, indices, 5868
  ethnography and anthropology, materials and research, USSR study, 12099
  health information for travel, 6579, 16795
  language, classification, Library of Congress, 4741
  literature, classification, Library of Congress, 4741
  Pacific Coast, tidal current tables, 15638
  Peace Corps volunteers, 12450

Asia—Continued
social science research studies, current list, 12522
south—
market profiles, 11519
regional mineral industry review, minerals yearbook chapter, 2347
south and east, translations, 3611
south and southeast, bibliography, 7322
southeast—
Asian studies (Japanese periodical), translations, 927, 942
background information, revision, 7213
investment information and opportunities, 16383
military and economic assistance, supplemental appropriations, 1966—
hearings, 5681
law, 7038
proposal, 4067
reports, 5679, 7184, 8544
military construction appropriations, 1967, hearings, 17358
special study mission, report, 7099
weapons and equipment recognition guide, 6840
Soviet Central, Volga Germans, 14934
United States policy—
hearings, 7144
report, 14387
print as House document, reports, 13000, 16099
report of subcommittee, 10244
United States trade, 1963–65, Communist areas, 14327
west—
agricultural situation, 1965 review and 1966 outlook, 8834
agriculture, 5867
Asian Development Bank:
appropriations, 1967, hearings, 13014
ceremonies marking deposit of United States instrument of ratification (remarks), 15400
cooperative development plan (remarks), 14052
establishing, agreement, message from the President, 4066
United States participation—
hearings, 4124, 5805
law, 7033
reports, 4101, 5770
Asimov, Isaac, genetic effects of radiation, 15547
Asparagus, market diseases, 16920
Aspect ratio, *see* Wings (aircraft).
Aspelin, Arnold, packer feeding of cattle, volume and significance, 16930
Aspen:
growth and yield of well-stocked stands in Alaska, 4471
Minnesota's, and projected supply, 14703
Aspen Emphysema Conference, conclusions on management of chronic obstructive lung diseases, 11192
Asphalt, California consuming industries, use of mineral fillers, granules, and roofing rock, 13683
see also Roofing.
ASPM series, 7252
Assateague Island, general information, 13877
Assateague Island Seashore National Park, bill signing ceremony (remarks), 1397
Assemblers, factory operatives, employment outlook, 9237
Assets and liabilities, *see* Banks and banking—Federal reserve member banks.
Assistance, *see* Public assistance.
Associations, *see* Educational associations—Societies.
Ast, Kathryn C., relief, 475
Asteroids, *see* names of asteroids.
Asthma, general information, 16797
Astronautics:
coordination of human voluntary movements during flight in outer space, USSR study, 7547
flight in space training vehicle, USSR study, 4650
high-power-level temperature controller for space flight applications, 7842
interplanetary monitoring platform—
IMP–I–Explorer XVIII, flight report, 7870
IMP–II Explorer XXI, flight report, 11048
manned space flight—
Belyaev and Leonov, USSR study, 6227
effects of confinement as factor, 13711
influence on cardiovascular function, 14196
medical problems of weightlessness, 8220
Project Mercury and Gemini, 9444
Projects Mercury, Gemini, and Apollo, suggestions for lesson planning, 6350
psychiatric selection of candidates, 8203
reactions of humans and animals, USSR studies, 13515
status today, etc., 13706
orbital rendezvous and transfer problems, computational method, 13823
physiological methods in cosmonautics, USSR study, 14821
planetary flight handbook, 9445
space flights—
dental kit encasement for emergency use in extraterrestrial missions, 9872
diet, isolation of Mima and Hereilea, experimental, 11382
investigations and research summary, 16712
investigations, opportunities for participation, change, 2449
Kosmos-110, effects on test dogs, USSR study, 12138
manifestations of hypokinesia (deconditioning) in body movement as compared to chair rest from 4 to 10 days, 6811
radiation safety, 2439, 11082
suspended animation, problems, USSR study, 4686
see also Navigator (interplanetary) missions.
Astronauts:
ability to establish lunar orbit using simplified guidance technique, 15154
Coriolis stimulation, responses, 9873
loads experienced by piloted launch vehicle, simulation, investigation, 7836
manual control of high-altitude Apollo launch abort, 11060
NASA, space flight team, biographies, 7751
pressure-suited subject under balanced-gravity conditions, water-immersion technique for study of mobility, 4900
propulsion devices for use in vicinity of moon, 4822
psychiatric selection for space missions, 8203
re-entry guidance and control, 1189
Astronomers, employment outlook, 9263
Astronomical observatories, orbiting Wisconsin experiment package data converter and display system, 17929
Astronomy:
astronomical papers, 7952
publications, price list, 13951
2d-order astronomical position determination manual, 314
errata, 5530
Soviet bloc research (periodical), 3524
Soviet research in Mali, 935
space, 1958–64, significant achievements, 15080

Astronomy—Continued
timely problems, USSR study, 7553
USSR determinations, 16453
see also Radio astronomy.
Astrophysical Observatory, *see* Smithsonian Astrophysical Observatory.
Astrophysics:
American Meteorological Society abstracts, 13892
interferometers in astrophysics, USSR study, 4660
lighthouse of the skies, history of Smithsonian Astrophysical Observatory, 8019
Smithsonian contributions, 2560
Astrostomatology, *see* Stomatology.
ASWEPS, *see* Antisubmarine Warfare Environmental Prediction Services ASWEPS manual series.
Asymptotic optimal systems as model of process of teaching control, USSR, 10792
Atchison, Topeka & Santa Fe Ry., accidents, 2140, 2142, 6094, 12071, 12081
Atheism:
anti-Islamic propaganda, USSR studies, 4619
antireligious propaganda in Kara-Kalpak, ASSR, USSR study, 9068
atheistic propaganda against Islam, 10711
atheistic propaganda and Islam, USSR articles, 1025
Communist, and Moslem faith, USSR study, 10766
USSR—
atheistic work in sphere of religious emotions, 937
promoting among children, 16392
special courses needed in higher education institutions, 13553
students, teaching methods used to form firm convictions, 12114
Atherosclerosis, lipid metabolism and atherosclerosis, USSR study, 7567
Athey, Skipwith W., magnetic tape recording, 2375
Athlete's foot, general information, 16706
Athletic goods, *see* Sporting goods.
Athletics:
amateur disputes in administration, hearings, 1933
Soviet analytical approach to physical training urged, 913
Athol quadrangle, Mass., surficial geology, 9006
Atlanta, Ga., area wage survey, metropolitan area, 13604
Atlantian (periodical), 2697
Atlantic alliance—
allied comment, 4219
basic issues, 5812
hearings, 11808, 17580
treaty and related agreements, 4220
Atlantic Coast:
coast pilot—
Cape Cod to Sandy Hook, supp., 5531
Cape Henry to Key West, supp., 5533
Eastport to Cape Cod, 316
Gulf of Mexico, Puerto Rico and Virgin Islands, supplement, 6985
Sandy Hook to Cape Henry, supp., 5532
light list, Little River, S.C. to Rio Grande, Tex., and Antilles, 6991
menhaden catch, age and size composition, etc., 5965
nautical chart catalog, 6988
northern plain, hydrochemical facies and groundwater flow patterns in northern part of Atlantic Coast plain, 12022
South, ports, 13294
storm warning facilities chart—
Cape Hatteras, N.C. to Brunswick, Ga., 12559
Eastport, Me., to Montauk Point, N.Y., 15418
Atlantic Coast—Continued
storm warning facilities chart—continued
Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 12561
Montauk Point, N.Y. to Manasquan, N.J., 15419
surface water, temperature and salinity, 3991
transportation lines, 7330
waterborne commerce, 676
Atlantic Coast Line R.R., accident, 14785
Atlantic Community, *see* Organization for Economic Cooperation and Development.
Atlantic Ocean:
hurricane season, TIROS coverage of 1963 season, 12335
northwest, fisheries convention of 1949, protocols—
report, 13091
text, 13080
northwest, U.S. cod fishery, 747
northwestern waters, marine cladoceran Penilia avirostris observations, 7444
notice to mariners, 3279
radio navigational aids, changes, 2484, 11146, 15238
radio weather aids, 2485, 12409
salinity and temperatures, distribution connected with subsurface equatorial countercurrent, USSR study, 893
western, Synodontidae (lizardfishes), field guide, 11967
Atlantic-Pacific Interoceanic Canal Study Commission:
appropriations 1966, public works, law, 401
appropriations, 1967, hearings, 10229
members, compensation, etc.—
law, 11562
report, 10159
report, 17161
Atlantic pact, *see* North Atlantic treaty.
Atlantic States:
cost of transporting freight, 6086–87
Middle—
manufacturing plants, location by county, industry, and employment size, 1963 census, 14255
standard metropolitan statistical areas, facts for marketers, 6879
Mideast growth patterns in employment by county, 5437
North Atlantic slope basins, surface water of basin, records to Dec. 31, 1963, index, 4515
soil sampling small wetland forest plots in Coastal Plain, 14711
south Atlantic region, standard metropolitan statistical areas, facts for marketers, 14246
south Atlantic slope basins, surface water records to Dec. 31, 1963, index, 2095
South, manufacturing plants, location by county, industry, and employment size, 14258
see also Atlantic Coast.
Atlantic Tunas, International Convention for Conservation, *see* International Convention for Conservation of Atlantic Tunas.
Atlantic Union, delegation, establish, hearings, 8772, 17376
Atlantida, case study in household sample surveys, 3937–38, 6937, 15596, 17012
Atlas-Centaur launch vehicle, *see* Spacecraft.
Atlases:
absorption of atmosphere, 6553
catalog of copyright entries, 5838, 17602
copyrighted, 1956
Indian Ocean, bathythermograph data, 15231
Navy marine climatic, Antarctic, 9600
solar flare effects in ionosphere, 5018
world atlas by Polish Army Topographical Service, 2164

Atmosphere:
absorption from 8512 to 11, 600A, atlas, 6553
air motion, probing by Doppler analysis of radar clear air returns, 11317
atmospheric diffusion and air pollution, problems, USSR studies, 7561
atmospheric dynamics, USSR studies, 7582
balloon altitudes, intensities and charge composition of low energy electrons, 2413
carbon-14 measurements, 5392
density variations over northern hemisphere, USSR study, 6241
determination of atmospheric density with rocket-borne thermistor, USSR study, 2269
emissions from coal combustion, inventory guide, 13961
energy transformation in atmosphere of Northern and Southern Hemispheres and interaction of processes in both hemispheres, 2442
flammable, temporary—
lights, maritime safety data, 16523
portable, shipboard ventilation for control, maritime safety data, 16524
free, physics, USSR studies, 10778
free; transparence of, and certain meteorologic characteristics, USSR study, 958
heating, variations, and TIROS radiation measurements, 17874
high altitude temperature measurements, thermistor arrangement, 13716
layer height, scanning photometer system automatically determines, 9477
lower layers, investigation of radio wave refraction at low angles of elevation, USSR study, 4612
mean atmospheric densities during minimum solar activity determined by Explorer satellite, 11059
mine, effects of gases on portable methane detectors, 9361
particles, settling rate, USSR study, 14911
physics, USSR studies, 2158, 13466
planetary—
continuing bibliography, 15091
significant 1958–64 achievements, 7756
radio refractive index, 7917
radioactive equilibrium extent between radon and its short-lived daughter products, 16757
radioactivity in Antarctica, 6551
radiochemical analyses of filter samples collected under Project Stardust, 8282, 9919
rarefied, gas exchange studies, peculiarities, USSR study, 1023
rarefied, partially ionized, electromagnetic torques on spherical earth satellites, 6471
reduction, operation of high temperature thermocouple, 7788
spacecraft, effects of 100% oxygen on ignitibility and combustibility of materials, 3797
tracking errors at S- and C-band frequencies, 13811
transportation and dispersion over southern California, 5229
turbidity in central Asia, USSR study, 1004
turbulence research, USSR study, 16462
upper—
hydromagnetic wave propagation near 1 c/s, 15211
molecular oxygen densities from rocket measurements of Lyman-α absorption profiles, 6340
errata, 9392
radioactivity sampling, agreement with Australia, 15362
static diffusion models with empirical temperature, profiles, 2560

Atmosphere—Continued
vertical distribution of water vapor over Kwajalein Atoll, Marshall Islands, 12440
visual resolution and optical scintillation over snow, ice and frozen ground, 8233
weather modification to increase yield of atmospheric water, authorize research, hearings, 13220
see also Ionosphere—Mesosphere—Stratosphere.

Atmospheric electricity:
stations, measurements from system, 5070
unitary conduction currents as measure of thunderstorm activity for entire surface of earth, 2446

Atmospheric entry:
ablative heat-shield materials, high-velocity impact craters in, determination of temperature and material effects, 16689
Apollo infrared acquisition and tracking system, 16649
approximation reentry angles of attack for spinning body from rate-gyro and accelerometer data, 12362
charring ablation thermal protection system, analysis, 2432
heat input for manned vehicles at hyperbolic speeds, minimization, 9544
heat-shield—
ablation measurements using radioisotope techniques, 7852
char-front recession, determination with nucleonic technique, 9511
heat transfer, convective and radiative, during superorbital entry, 16600
hypersonic reentry, Trailblazer IIa9° half-angle blunt nose cone, radar cross section and optical radiation, 4956
M2–F1 lifting body flight vehicle, longitudinal aerodynamic characteristics, 6468
nongrey radiation effects on boundary layer of absorbing gas over flat plate, 16597
optimum earth re-entry corridors, 6342
photometric analysis of spectrograms of 2 Trailblazer I payload reentry events, 9520
pilot re-entry guidance and control, problems, study, 1189
planetary-entry configurations, dynamic-study, 13818
Project Fire—
instrumentation for radiative heating, etc., measurements, 17918
payload reentry flight, angle-of-attack, analysis, 7879
photographic summary, etc., 17913
Project Sparta in Australia, agreement with Australia and United Kingdom, 15348
reentry guidance scheme for return from manned Mars mission, 9535
supercircular entry guidance concept designed for maximum monitoring capability, 17926
tension shell entry configuration, longitudinal aerodynamic characteristics, 15159
X–15 control experiences pertinent to lifting entry, 4978

Atmospheric pressure:
and temperature in conterminous U.S. interdiurnal variability, 9767
changes, effects of bleeder entries in gassy coal mine, 10924
colloidal suspension simulates linear dynamic pressure profile, 11008
high pressure living, new developments, 6283
increased partial pressure of oxygen, testicular function in roosters and mice after exposure, 12631
laboratory pressures of up to 10 million atmospheres created by Soviet scientists, 13506

Atmospheric pressure—Continued
low, verbal communication intelligibility in oxygen-helium breathing mixtures, 8205
reduced barometric pressure and respiratory water loss, 6814
upper stratosphere and mesosphere measurements, 13848
Atmospheric refraction, effects on sonic-boom ground-pressure patterns, 15152
Atmospheric sounding, *see* Sounding (meteorology).
Atolls, *see* Coral reefs and islands.
Atomic absorption, methods for analysis of selected metals in water, 17726
Atomic auxiliary power generators, SNAP nuclear space reactor, principles and uses, 15551
Atomic beam, determination of cesium-cesium total scattering cross section, 2436
Atomic blasting:
Isthmian Canal studies—
construction of Isthmian sea level canal by nuclear methods, 152
excavation with nuclear explosions, 154
general construction plan for sea-level canal, 157
nuclear excavation plans, 153
nuclear operations, 156
on-site survey program, 158
safety evaluation for air blast, ground shock, throwout, and dust, 155
Atomic bonus, non-nuclear benefits from nuclear development, 12686
Atomic energy:
act of 1954, amend—
hearings, 15778
law, 17135
reports, 15913, 15926, 16135
application of safeguards by IAEA, agreement with Austria, 15345
atom quenches thirst, USSR study, 1069
atomic bonus, non-nuclear benefits from nuclear development, 12686
atomic transition probabilities—
bibliography, 7916
hydrogen through neon, 11092
code of Federal regulations, 3859, 7408
cooperation for civil power applications, agreement with United Kingdom, 16861, 16864
cooperation for civil uses, agreements with—
Israel, 9726
Korea, Republic, 8086
Spain, 12536
cooperation for civil uses, application of safeguards by IAEA to agreement with
Greece, 8081
Portugal, 6645
cooperation, international agreements, hearings, 1790
eye on atom, role of photography in nuclear research and development, 162
employment outlook, 9294
fundamental nuclear energy research 1965, AEC supplemental report, 3855
growth of foreign nuclear power, 12685
IAEA's activities in peaceful uses of nuclear energy (remarks), 15543
in use, general information, 3854
industry, development, growth, and state, 1965, hearings, 1789
international cooperation, report, 9930
legislation through 89th Congress, 1st session, compilation, 4037
levels, 1680
literature, what's available, 11435
new worlds in atomic energy (remarks), 164
nuclear and radiation standards of importance to national atomic energy program, 7919
Atomic energy—Continued
nuclear energy and generation of power (remarks), 9932
nuclear energy for desalting, 15548
nuclear industry, 1965, report, 165
nuclear power-desalting, large-scale combination project—
hearing, 17150
report, 17497
nuclear progress at Yale (remarks), 15541
nuclear space program, organization and plans (address), 166
oceanographic applications of nuclear energy (remarks), 167
peaceful environment of the atom (remarks), 16981
peaceful uses, Bulgaria, progress noted at session of permanent commission, 14952
Plowshare program, Isthmian Canal studies, 1964—
construction of sea level canal by nuclear methods, 152
general construction plan, 157
nuclear excavation plan, 153
nuclear operations, 156
on-site survey program, 158
safety evaluation for air blast, ground shock, throwout, and dust, 154–155
products, current industrial reports, 15590
program, bibliographies, 6860
programs, major activities, 6870
Rankine space power systems, AIAA specialists conference, 12673
remote handling of mobile nuclear systems, 5410
research progress reports—
Agricultural Research Laboratory, University of Tennessee, 6858, 11431
New Brunswick Laboratory, 6853
role of nuclear energy in space (remarks), 5425
safeguards, application by IAEA for peaceful uses, agreement with—
China, 2587
Philippines, 2585
South Africa, 2586
Vietnam, 2589
single particle energy levels and wave functions in nuclear structure calculations, Fortran program, 16720
SNAP 8 radiation effects test program—
components and assemblies, 7747
electrical insulation materials, 7746
gamma spectrum measurements, 7745
space nuclear power generators, hearings, 5591
toxicity of radioelements, research program, 8306
training demonstrations about principles and beneficial uses of nuclear energy, 15544
understanding the atom series, 1688, 11441–444, 15547–551
you can learn more about atomic energy, 5429
Atomic Energy Agency, International, *see* International Atomic Energy Agency.
Atomic Energy Commission:
accelerator radiation dosimetry and experience symposium, proceedings, 12674
AEC citation for outstanding service (remarks), 168
AEC research and development reports, 142–161, 1674–85, 3846–53, 5382–5417, 6851–68, 8276–97, 9917–28, 11411–440, 12668–685, 14236–237, 15526–539, 16970–976
AEC symposium series, 5384, 12675
Albuquerque Operations Office, standard structure for managerial data, 5382
appropriations, 1966, public works, law, 401
appropriations, 1967, authorizing—
hearings, 8482, 10092
law, 10079
reports, 8632, 8748, 10121

Atomic Energy Commission—Continued
appropriations, 1967, public works, hearings, 10229
cataloging reports, report number series used by Technical Information Division, 11433
contractors operating facilities, savings through increased purchasing from GSA supply sources, GAO report, 16346
descriptive cataloging guide, 5405, 16976
facilities, industrial accidents, 1963–64 summary, 5406
film catalog (16 mm)—
popular level, 15552
professional level, 11445
financial report, 16978
fundamental nuclear energy research 1965, supplemental report, 3855
indemnity provisions of act of 1954, amend—
hearings, 15778
law, 17135
reports, 15913, 15926, 16135
licensing guides, 3845, 5381, 6849
industrial radiography, notice, 1686
Nevada test site, allowances to employees, law, 7047
news release index, 6850
Nuclear Instrument Module Committee, standards adopted, 6862
nuclear power-desalting, large-scale project, authorize—
hearing, 17150
report, 17497
preferential allowances paid contractor employees at Hanford Works, Richland, Wash., GAO report, 10623
press releases, 3344
procurement and utilization of security covers for nuclear weapons, GAO review, 16349
programs, major activities, 6870
radioactive material shipments, incidents involving, 1963–64 summary, 9927
report—
departmental edition, 6869
document edition, 7171
reports, opinions and decisions, 9929
research and development in progress, biology and medicine, 9924
research in—
chemistry (off site), summaries, 5404
metallurgy, solid state physics and ceramics, 5403
rules and regulations, 2698, 3859
Sandia Laboratory, Albuquerque, N. Mex., photographic equipment, utilization and procurement, review of controls, GAO report, 4503
savings attainble through reductions in fire department and guard force staffing at contractor-operated installations, Oak Ridge Operations Office, GAO report, 9001
selling to AEC, 15546
transferring control of land in Otowi section to, report, 17514
Atomic Energy Joint Committee:
committee prints, 4037, 7048
hearings, 450, 1789–90, 4038, 5591, 7049, 8482–83, 10092, 15778, 17150
membership, publications, etc., through 89th Cong., 1st sess., 7048
reports, 8632, 8747–48, 15913, 16135, 17497
Atomic ordnance, Federal item identification guides for supply cataloging, supplements, 2940
Atomic physics, *see* Nuclear physics.
Atomic power plants, *see* Nuclear reactor power plants.
Atomic radiation, *see* Radiation.
Atomic ships, *see* Nuclear powered ships.
Atomic transition probabilities, hydrogen through neon, 11092
Atomic warfare:
application of statistics to resource management program (paper), 657
civil defense and current damage limiting studies (speech), 14292
damage assessment systems, measuring effectiveness criteria (paper), 658
gaming, logistics of national survival, 1982
hospital planning, 1422
nuclear fire, defense against in U.S., national fire coordination study, 10553, 16320
nuclear warfare defense, Navy handbook, 2312
Atomic weapons, *see* Weapons.
Atomization of ethanol jets in combustor with oscillatory combustion-gas flow, 15147
Atoms:
atoms for peace, milestone in international cooperation, Germany's participation in program (remarks), 5418
atoms in action exhibit, Utrecht, Netherlands (remarks), 5424
Atoms in Action Nuclear Science Demonstration Center, research and teaching program (remarks), 15544
competition and the peaceful atom (remarks), 5419
cross section for impact ionization of H(1s) atoms by H(1s) atoms near threshold, 2420
eigenfunctions and eigenvalues introduced by Bethe for linear chain of atoms, 11100
electron attachment to atomic fluorine in thermally ionized air, 12274
empirical and semi-empirical interatomic intermolecular potentials, survey, 16715
eye on atom, role of photography in nuclear research and development, 162
future in space (address), 12687
hydrogen-atom, catalysis, recombination in rocket nozzles, 6341
metastable, effects on volume ion production in tenuous helium plasma, 1280
errata, 12334
nature, and man, 11441
quenches thirst, USSR study, 1069
understanding the atom series, 1688, 11441–444, 15547–551
X-ray spectra, in polar crystals, USSR study, 1050
ATP, *see* Adenosine triphosphate.
Atropine, effect on parenterally induced Coxsackie B infection in mice, 78
ATS, *see* Air Traffic Service.
Attachment, garnishment, State laws, 12205
Attention:
quantal interpretation of sensory channel uncertainty and reaction time and psychological time quantum and discrimination of succession, 9427
talk and listen, guide for parents, 8163
time constant involved, 9402
visual sampling behavior of human observers, 9408
Attenuation:
air-scattered radiation in basement, 3846
radiation from artificial earth satellites, USSR study, 14890
Attenuation coefficients, *see* Coefficients.
Atterbury, Camp
legislative jurisdiction, retrocede to Indiana—
hearing, 17360
report, 12995
Attitude (psychology):
officer career attitudes, multiple linear regression analysis, 3790
Attitude control, *see* Satellites—Spacecraft.
Attorney General, *see* Justice Department.
Attorneys, *see* Lawyers.
Atvars, J., refraction of sound by jet flow or jet temperature, 10960

Auburn-Folsom South unit, *see* Central Valley project.
Audio amplifier, *see* Amplifiers.
Audio-visual equipment:
educational, scientific, and cultural character implement—
Beirut agreement—
hearings, 11692
report, 12979
Florence agreement—
law, 17138
reports, 12978, 17500
market in United Kingdom, 174
Audio-visual instruction, NDEA institutes for advanced study for educational media specialists, 5884A
Audiologists, employment outlook, 9277
Audiology:
impaired auditory mechanism, monaural versus binaural discrimination for filtered CNC materials, 15491
monaural vs. binaural discrimination for filtered CNC materials, 5330
speech discrimination, expanded test using CNC monosyllabic words, Northwestern University auditory test, 15489
Audiometers, semiautomatic, comparison with manual audiometry, 5332
Auditing:
audits of Government contracts, by GAO, 16340
automatic data processing systems, guide, 12625
bank audits by public accountants, analysis, 10233
Disabled American Veterans accounts, by GAO, report, 15900
postaward audits, need for in Defense Dept. contracts, GAO report, 6014
see also for audit reports, names of corporations, etc.
Auditors:
examination announcements, 1751, 17036–37
amendments, 3967, 8388, 8392
pay, survey, 2303
Auditory acuity, *see* Acuity.
Auditory perception, *see* Perception.
Auditory system, *see* Hearing.
Audits, *see* Auditing.
Aukerman, Carl A., rocket performance of Apollo storable propellants in engines with large area ration nozzles, 15173
Aurora, Minn., geology and ground-water resources of area, 7491
Auroras:
polar aurorae at high latitudes, investigation, 4992
polar, USSR study, 6105
Auseon, Donald E., relief, 12885
Ausmus, Norma F., current employment market for engineers, scientists, and technicians, 14567
Austin, Morris E., land resource regions and major land resource areas of United States, 3744
Australia:
Christmas Island—
mineral industry, minerals yearbook chapter, 6297
radionuclide content of foodstuffs, Operation Dominic, 8297
chronic health care, comparison with American, etc., methodology, 11684
health information for travel, 6579, 16795
lights and fog signals list, changes, 1337, 6522, 9582, 13895
mineral industry, minerals yearbook chapter, 6295
Nauru Island, mineral industry, minerals yearbook chapter, 6297
north and west coasts, sailing directions, change, 17968
patent, trademark, etc., protection, 345
Australia—Continued
Project Sparta, flight reentry program, agreement, 15348
radioactivity sampling of upper atmosphere, agreement, 15362
southeast coast, sailing directions, change 12404
tracking stations, agreement, 11265
wheat marketing system, 4432
Austria:
atomic energy, cooperation for civil uses, application of safeguards, agreement, 15345
background notes, 6621
economy, basic data, 11515
establishing business, 12771
Italy boundary, study, 5154, 11256
labor conditions, 13623
mineral industry, minerals yearbook chapter, 7687
Authors:
author index, particles and fields research, bibliography, 12291
condemnation of Soviet authors, A. Sinyavskiy and Yu. Daniel', USSR study, 6103
L.C. national union catalog, cumulative list, 3242
register of additional locations, 2308, 14986
technical writers, employment outlook, 9283
trial of Soviet authors, A. Sinyavskiy and Yu. Daniel', remarks by Western critics, 9084
Ukrainian—
arrests, interpretation by emigree organization Prologue, 12110
repressions against, 12097
Autoclaves, expansion values of portland cement, interrelations between cement and concrete properties, 13855
Automata forcasting random process, USSR, 1051
Automated drafting system uses computer techniques, 13797
Automatic bowling machine mechanics, *see* Mechanics (persons).
Automatic data processing equipment, *see* Electronic data processing systems.
Automatic fluid separator supplies own driving power, 4845
Automatic gain control circuit handles wide input range, 7765
Automatic machinery:
automatic machines and man, USSR study, 4589
man and automatic machines, USSR study, 16472
Automatic pickup for bags, tags, and cartons in packaging and labeling agricultural products, 6710
Automatic picture transmission:
users guide, 1994
errata, 7341
Automatic protective vent has fail-safe feature, 15099
Automatic Standard Magnetic Observatory, general information, 17050
Automation:
aircraft cargo delivery systems, cost, etc., evaluation, 14233
and changing cities (remarks), 11115
and control of economics in Soviet Union, 12093
automated production control systems, USSR developments, 16399
automatic control and methods of electric measurements, 2440
automatic control systems—
metallurgic industry, USSR study, 1008
theory, 2440
automatic control theory, analytical conditions of positiveness of real functions, 6189

Automation—Continued
automatic instruments and equipment, production, USSR study, 14928
automatic merchandising, bibliography, 16822
automatic operational management of processes of production, USSR study, 7635
automatic recording and transmission installation for meteorological data, East German study, 1039
automatic regulation and control, USSR studies, 15203
automating compilation of programming programs, USSR study, 12096
automation and technology in education, 17151
automation and telemechanics, USSR studies, 6239
automation, skill, and manpower predictions, 17802
cybernation, people eaters or prosperity makers? (remarks), 1320
cybernetic diagnosing of diseases, Czechoslovak achievements, 4681
cybernetics and automation, USSR studies, 14810
determining error in system for automatic calculation of technical-economic characteristics, USSR study, 13481
ethics in automation (remarks), 11118
finite probability automata, test for representability of events, USSR study, 990
Hungarian views, 888
Hungary, research achievements and trends, 10708
impact on collective bargaining (remarks), 7933
industrial equipment exhibit reflects the value of esthetics in working conditions, USSR study, 2252
mail handling mechanization (address), 2509
man-machine relationships in railroad control, USSR study, 17791
manpower and automation research sponsored by Office of Manpower, Automation and Training, 2282
manpower, research monographs, 1080, 14961
modelling human behavior, conferences on programming and automatic control, USSR studies, 13532
nationwide studies, 1087
office, impact in insurance industry, 4730
people and pensions (remarks), 9562
potential effects on banking structure (remarks), 10510
problems, etc., USSR study, 4594
production, complete, solution of problems, USSR study, 9162
railroad operations, USSR study, 12145
reviews of new Soviet books, 13484
structure and functioning of banking, effects (remarks), 2026
synthesis of nonlinear control laws, USSR study, 9155
cancellation, 14790
technology—
Communist Chinese abstracts, 2770
East European abstracts, 2867
USSR abstracts, 3673
USSR 3d All-Union conference on automatic control, technical cybernetics, 2169
water data records, review of procurement of equipment for implementing, Geological Survey, GAO report, 13381
working with automation (remarks), 17954
see also Optimal processes.
Automobile-body repairmen, apprenticeship and training standards, 14201
Automobile drivers, health aspects of driver licensing, 5130
Automobile insurance, high-risk, industry, investigation, hearings, 4226
Automobile mechanics, *see* Mechanics (persons).
Automobile painters, *see* Painters.
Automobile parking, *see* Parking of vehicles.
Automobile parts, *see* Automobiles.
Automobile service-station attendants, *see* Service-station attendants.
Automobiles:
automobile mechanics, apprenticeship standards, 11388
automotive products trade agreement with Canada, achievements (address), 8418
consumer buying intentions, 268, 5496, 11474, 14278
crankcase ventilation systems, performance, 15293
disabled veterans, liberalize provisions of grants, report, 11749
industry, cooperation with Govt. for safety, fighting inflation, etc. (address), 4021
junked, disposal, hearings, 13228
parts countermen, employment outlook, 9210
prices of 1966 models, 10883
scrap use, potential increase (address), 4017
travel by Federal employees, cost reductions through use of Govt.-owned vehicles, GAO report, 14730
USSR industrial development, translations, 3658
see also Passenger cars.
Automotive body and fender repairmen, *see* Body and fender repairmen.
Automotive painters, *see* Painters.
Automotive service specialists, *see* Mechanics (persons).
Automotive tires, *see* Tires.
Automotive trades, *see* Motor vehicles.
Automotive vehicles, *see* Motor vehicles.
Autopsy, processing and storage of viable human tissues, 16808
Autoradiographs, autoradiographic examination of airborne fallout for Oct.–Nov. 1964, 1413
Autoregulation in cytology and cytochemical studies of nerve cells, USSR, 977
Autumn, mean date of first 32° (F.) temperature, 8866
Autumn olive for wildlife and other conservation uses, 42
Avalanches:
Little Tahoma Peak, 2092
manual for planning structural control, 13371.
Avedon, E. M., recreation and mental retardation, 18071
Averback, B. L., micro- and macrocrack formation, 2551
Averitt, Paul, coking-coal deposits of western United States, 10633
Avery, Ivan F., carbon black in 1965, annual, 10909
Avery, James P., Green's function approach to vibration of thin spherical shell segments, 16611
Aviation, *see* Aeronautics—Aircraft—Army aviation.
Aviation accidents, *see* Aircraft accidents.
Aviation boatswain's mates:
E 3 & 2, Navy training course, 5060
H 3 & 2, Navy training course, 12413
Aviation company, field manual, 11398
Aviation fields:
drainage and erosion control, Army technical manual, 1654
lighting, Navy design manual, changes, 1569
military, instrument approach procedure charts, 3196

Aviation fields—Continued
pavements—
evaluation concepts, technical manual, change, 5371
flexible, evaluation, engineering and design, technical manual, change, 5372
Navy design manual, changes, 1569
Aviation fuel, *see* Turbine fuel.
Aviation machinists mate J 1 & C, Navy training course, 15241
Aviation medical examiners, directory, 9939
Aviation medicine, *see* Medicine.
Aviation oils, *see* Fuel oils.
Aviation structural mechanics, *see* Mechanics (persons).
Aviators:
aeronautical communications and pilot services, ATS handbooks, 3800, 12647
airline transport pilot, written examination guide, 8945
comfortable approach speed criteria derived from closed-loop pilot-vehicle systems analyses, application to ogee wing aircraft, 15072
commercial pilot, examination guide, 10544
Coriolis stimulation—
motion sickness, speed of recovery, 14194
responses, 9873
vestibular, effects of flying experience, 9877
decompression effects on performance, 11448
flight navigators—
certificates and training courses, Federal aviation regulations, 13308
certification, Federal aviation regulations, 16261
gyroplane commercial pilot, flight test guide, 14683
gyroplane pilot, private and commercial, written examination guide, 11982
helicopter private and commercial pilot, flight test guide, 2010
human tracking perforance in uncoupled and coupled 2-axis systems, 15045
human transfer functions in multi-axis and multi-loop control systems, 9512
maxillary sinus disease, 9862
memorandum for aviators, 3189
multiengine airplane class or type rating, flight test guide, 11981
pilot describing function measurements in multiloop task, 15052
pilot opinion of trim changes for STOL airplanes, simulator study, 6433
pilot proficiency, assessment, 15250
pilots and flight instructors, certification, Federal aviation regulations, 11909–911, 16260
changes, 14602
pilots and other personnel, medical research on aging, GAO review, 8996
private pilot, single-engine airplane, flight test guide, 16317
private pilot's handbook of aeronautical knowledge, 11983
student pilot guide, 7445
tracking tasks for human pilot, 6430
visual sampling behavior of human observers, 9408
see also Notice to aviators.
Awakening, performance upon sudden awakening, 97–98
Awards (arbitration):
National Railroad Adjustment Board, 2474, 6517, 7949, 11133–136, 13889, 15226–228, 16739, 17963
Awards (incentive), *see* Rewards (prizes, etc.).
Awbrey, Stuart, Peace Corps volunteer, 3314
Axial compression, buckling of imperfect cylinders, 15051
Axial flow, *see* Flow.
Axial leads, semiautomatic device tests components with biaxial leads, 13772
Axial-load fatigue, *see* Strains and stresses.
Axilrod, Benjamin M., empirical and semi-empirical interatomic and intermolecular potentials, survey, 16715
Axles, vehicular, identification list for Federal supply catalog, Defense Dept. section, 5851
Ayers, Archie R., student services administration in higher education, 10431
Ayrshire cattle, *see* Cattle.
Ayuda de la FHA para permuta de viviendas, 8896
Ayudando a la gente en grupos, seis documento de trabajo presentados en el Seminario sobre Servicios de Grupo, 14584
Azaleas, planting and care, 5291
Azerbaydzhan Soviet Socialist Republic:
scientists elected to Academy of Sciences, 17795
water resources of administrative regions, estimate, 14892
Azov Sea of, lights and fog signals, list, changes, 5056, 7958, 13897
Azovskoye More, *see* Azov, Sea of.

B

B.T., *see* Bacillus thuringiensis.
Baath, national socialistic party, past and present, 6131
Baber, Clayton E., Fortran IV 2-dimensional discrete angular segmentation transport program, 15178
Babies, *see* Infants.
Babitzke, Herbert R., high-temperature columbium and tantalum alloys, 10919
Baboons, anesthetized, cardiac output and regional blood flow, 12637
Baboquivari Mountains, mesozoic rocks, 2090
Baby, *see* Infants.
Bache, G. Michael, market for U.S. products in Ivory Coast, 7527
Bachelor's degrees, *see* Degrees (colleges, universities, etc.).
Bacigalupi, Robert J., dependence of adsorption, properties on surface, structure for body-centered-cubic substrates, 2426
Bacillus anthracis, variability in natural conditions, USSR study, 16423
Bacillus thuringiensis:
control agent for gypsy moth, field and laboratory investigations, 17699
use in field test against budworm, 13361
Back, William, hydrochemical facies and ground-water flow patterns in northern part of Atlantic Coastal plain, 12022
Backfilling, *see* Filling.
Backfills, *see* Hydraulic mine filling.
Backman, Jules, inflation and price indexes, 11596
Bacteria and bacteriology:
bacterial soft rot in bell peppers, cause and commercial control, 6757
bacteriological requirements for commercial egg cleaning, 6759
normal fecal bacterial flora of man, study, 10942
radiation techniques use for inhibition of bacterial growth in liquid media, 5393
use of bacteria in extermination of mosquitoes, USSR study, 1000
see also names and classes of bacteria.
Bacterial flora, *see* Bacteria and bacteriology.
Bacterial warfare, self-defense of populations against bacteriological weapons, USSR study, 4646
Bacteriophage, staphylococci isolated from monkeys and their human handlers, 'phage type and antibiotic sensitivity, 8207
Bader, Henri, measurement of natural particulate fallout onto high polar ice sheets, 8235

Badger Company:
conceptual design of 50 MGD desalination plant, 2111
Baffin Bay, sailing directions, change, 7955
Baffles (mechanics):
baffled cyclindrical tanks, moment of inertia and damping of liquids, 6334
ring baffle under sloshing conditions, comparison of theoretical and experimental pressures and forces, 6336
Baggage:
census of manufactures, 1963, luggage. industry statistics, 5443
luggage, briefcases, and personal leather goods, current industrial reports, 2817
Baggerly, Leo L., electron scattering in aluminum, 2359
Bagnold, R. A., approach to sediment transport problem from general physics, 12021
Bagpipes, duty free treatment, report, 17218
Bags:
automatic pickup in packaging and labeling, 6710
polyethylene, pole beans, prepackaging, 8129
Bahiman, Hossein, postlaunch structural analysis of Echo II satellite, 6418
Bahrain, *see* Bahrein.
Bahrein:
background notes, 8038
mineral industry, minerals yearbook chapter, 1116, 13688
Bail:
agency, establish in D.C.—
hearings, 10339, 13025
law, 15709
reports, 12917, 14454
Federal procedures, modify, hearings, 1944
reform act of 1966—
hearings, 8673
law, 11574
reports, 10163, 10171
Bailey, J. F., definition of stage-discharge relation in natural channels by step-backwater analysis, 6043
Bain, Robert W., development and use of training materials and aids in vocational rehabilitation, 9760
Baird, Charles F., nomination, hearings, 7204
Bait:
fish, collection, care, preparation and propagation, 752
shrimp industry of Gulf of Mexico, 13344
Baker, Albert F., determining electrical resistivity of anthracite specimens, 10926
Baker, B. B., jr., glossary of oceanographic terms, 15239
Baker, Charles E., thermal conductivities of ordinary, etc., polar gases and their equimolar mixtures, 7850
Baker, Donald M., atlas of solar flare effects in ionosphere observed with high-frequency Doppler technique, 5018
Baker, Dorothy C., mineral trade notes, monthly inventory, 3204
Baker, Frank H., beef cattle improvement. handbook for county agents, 5285
Baker, H. R.:
aggressive cleaner formulations for use on corroded equipment, 1376
factors affecting icing resistance of lubricants for aircraft ordnance, 2500
removing sea-water salt residues, sand, dust, and soluble corrosive products from missile- and satellite-tracking radar, 6548
surface-chemical displacement of bulk water from solid surfaces, 16756
Baker, John A., address, Jan. 23, 1966, 5288
Baker, Philip S.:
isotopes and radiation technology, review of recent developments, 3092
radioisotopes in industry, 1688
Bakers and bakeries:
bakery products companies, 1959–64, ownership changes made, 14539
baking industry—
employment outlook, 9296
organization and competition, 16720
Bakery products, census of manufactures, 1963, industry statistics, 6890
Baking, *see* Bakers and bakeries.
Baking enables McLeod gauge to measure in ultrahigh vacuum range, 2380
Balakrishnan, A. V., adaptive data compression for video signals, 9523
Balance of payments:
and business community, voluntary cooperation (address), 1780
businessman's role (remarks), 9744
commercial dollar sales of agricultural commodities to foreign countries purchasing same type commodities for foreign currencies under Public law 480, precautions taken for protection, Agriculture Dept., GAO review, 14737
corporate voluntary balance of payments program and lawyer (remarks), 11511
discriminatory ocean freight rates effect—
committee print, 14370
hearings, 1792, 14369
dollar outflow, reduction possible through use of American-made building materials, GAO report, 8992
education, research and development and United States balance of payments (remarks), 16885
export expansion and import competition (remarks), 336
Federal foreign research spending and dollar drain, hearings, 7145
improvement efforts and prospects (remarks), 8104
interest equalization tax act on foreign securities—
extend—
legislative history, 4150
Senate amdts., summary, 1881
impose, legislative history, 17398
interest rates, gold, and balance of payments (remarks), 731
international liquidity (remarks), 727
monetary policy and U.S. balance of payments (remarks), 16281
plugging dollar drain, cutting Federal expenditures for research, etc., abroad, report, 8621
President's program explained (remarks), 8435
problem, subcommittee report, 571
problems and their solution (remarks), 15657
program—
current situation (statement), 10046
in perspective (address), 5563
revised guide lines for banks and nonbank financial institutions, 5953
progress made and problems (remarks), 1514
reducing deficit, substantial improvement in 1965 (remarks), 6676
saving dollars through use of foreign currencies to transport personnel effects abroad, GAO report, 14728
statistical information, direct investment and development of balance of payments policy (remarks), 362
toward balance in our international payments (remarks), 8927
travel and tourism for balancing international accounts (remarks), 17062
U.S. international paymen*s, 2029
U.S. policy and foreign investment (remarks), 11531
U.S. programs and private capital (remarks), 8103
United States international economic policy, new approach, hearing, 17152

Balance of payments—Continued
United States international position, recent changes, 10512
updating international monetary system (address), 6682
use of reserved foreign currencies in lieu of dollars, reports, 7188, 17230
voluntary business program (remarks), 4016
voluntary program, direct investments and corporate adjustment techniques (remarks), 1769
voluntary program for business community (remarks), 10038
Balance sheets, *see* Finance.
Balances, industrial plant equipment handbook, 11841
Bald eagle, *see* Eagles.
Baldanza, Nicholas T., fiber reinforced thermoplastics, 14521
Balderston, C. Canby, remarks, Dec. 7, 1965, 732
Baldwin, J. L., weekly weather and crop bulletin, national summary, 3703
Baldwin, Rey, D., relief, 5724
Baldwin-Lima-Hamilton Corp., conceptual design of 50 MGD desalination plant, 10663
Ball, A. M., solid propellants, 8229
Ball, Claiborne M.:
employment effects of construction expenditures, 13621
labor and material requirements for construction of federally aided highways, 4715
Ball, George W., address, Jan. 30, 1966, 6629
Ball, Robert J., jr., 'phage type and antibiotic sensitivity of staphylococci isolated from monkeys and their human handlers, 8207
Ball-bearing retainers, impregnated lubricants (evaluation) at 10^{-9} torr, 4976
Ball bearings, *see* Bearings (machinery).
Ball lightning, *see* Lightning.
Ballard, G. E. H.:
strength of snow, 8242
theory of snow failure, 1635
Ballistocardiography, bibliography, 1203
Ballooning interchange instabilities of magnitized plasmas under gravitational fields, 8286
Balloons:
air-sounding, rough surface improves stability, 2377
forces in balloon logging, 4446
hot-air, use for booster recovery, 16705
moored, Federal aviation regulations, 10463
pilot balloon, battery operated, time signal generator, 17693
radar-positioned constant-volume balloon (tetroon) flights, catalog, 16901
radioactivity sampling of upper atmosphere, agreement with Australia, 15362
single-hull, logging test, 10604
strain measurements conducted on full scale Echo II, passive communications satellite balloon, 7817
Ballou, Eleanor F., reference books, 1619
Balsa, impact limiters, practical limits, 4924
Balsam fir, *see* Fir.
Balsam woolly aphids, *see* Aphids.
Balsbaugh, Edward U., jr., genus Lexiphanes of America north of Mexico, 5041
Baltic Sea:
lights and fog signals, list, changes, 1338, 6523, 9584, 16747
sailing directions, change, 15233
Baltic States, status report, 16136
Baltimore, Md.:
area wage survey, 6267
commodity transportation survey production area series, 9952
post offices, accelerated business collection and postal delivery program, GAO review, 10625
principal electric facilities, map, 7374
Baltimore, Md.—Continued
reduced defense spending, potential impact, 14207
Baltimore and Ohio R.R., accident, 12075
Baltz, Elmer H., history of nomenclature and stratigraphy of rocks adjacent to Cretaceous-Tertiary boundary, western San Juan Basin, N. Mex., 12024
Bamberg County, S.C., soil survey, 8033
Bamboo, fiber and papermaking characteristics, 14164
Band-pass filters:
high-performance RC bandpass filter is adapted to miniaturized construction, 13745
thin carbon film serves as UV bandpass filter, 6386
Bandelier National Monument, general information, 5045
Bandpass filters, *see* Band-pass filters.
Bands (music):
District of Columbia Police Department band, include members of Fire Department, etc., report, 15872
Bangkok, Thailand:
Foreign Service buildings program, report, 5637
U.S. trade center, 14783
Bangs disease, *see* Brucellosis.
Bank examinations, *see* Banks and banking.
Bank examiners, examination announcement, 294
Bankhead-Jones farm tenant act, *see* Agricultural credit.
Banking, *see* Banks and banking.
Banking and Currency Committee, House:
calendar, 3113
committee prints, 510, 1847, 1849, 4125, 8664, 10233–35, 13023, 14413
hearings, 1848, 1850–51, 4124, 4126, 5686, 7127, 8658–63, 10236, 11645, 14414, 15963–964, 17366–369
investigations and studies—
European capital markets, authorization, report, 17297
expenses, reports, 4103–4
list of publications, hearings and committee prints, 89th Congress, 4125, 14413
proceedings, presentation of portrait of Wright Patman, print, report, 10193
reports, 496, 1830, 4101, 5635, 7102, 8571–72, 8597, 8615–17, 10137, 12976, 14888, 15840, 15846, 15897, 15937, 17202, 17254, 17322
subcommittee prints, 7126, 7128, 13022, 13024
Banking and Currency Committee, Senate:
calendar, 3132
committee prints, 571, 1927–28, 4213, 5798, 10327–28, 16177
hearings, 4211–12, 5799, 5800–1, 8768, 10326, 10329–31, 11792–794, 14474–477, 16178–179, 17573
investigations and studies—
authorization, reports, 4163, 4176
housing, public and private—
authorization, report, 4177
expenses, report, 4162
reports, 4162–63, 5785–86, 7180–82, 7188, 8725, 8746, 10304, 11748, 11772–773, 11783, 13183, 13186, 13188, 16079, 16101, 16131, 17464, 17549
summary of activities, 89th Congress, 1st session, 4213
Bankruptcy:
act—
amend rel. to statutory liens and powers of trustee—
law, 11591
reports, 5762, 5764, 10285
amend to give court supervisory power over fees, report, 5774
amend with respect to priority and nondischargeability of taxes—
law, 11592
reports, 5761, 5763–64, 10284

Bankruptcy—Continued
act—continued
amend with respect to referees—
law, 10065
report, 4098
statistical tables, 8120
Banks, Vera J., research data on minority groups, etc., 16934
Banks, William L., jr., effect of hydrazine on protein content of various tissues in rat, 8202
Banks and banking:
applications received, or acted on, by Federal Reserve System Board of Governors, 2683
assets and liabilities, all banks—
semiannual report, 4388–89, 11945
semimonthly report, 2694
assets, liabilities, and capital accounts, commercial and mutual savings banks, 696, 14624
audit of banks by public accountants, analysis, 10233
automation on structure and functioning of banking, effects (remarks), 2026
bank credit series, revision, 13328
bank debits and deposit turnover, 2700
bank holding company act of 1956—
amend—
hearings, 10326
law, 11583
reports, 1830, 10304
amendments—
analysis, 1927, 10327
lists of companies, etc., covered, 5798
section-by-section summary, 10328
tax treatment of distributions pursuant to, report, 17536
bank holding company legislation—
hearings, 10326
law, 11583
reports, 1830, 10304
bank merger act, amend as to applicability of antitrust laws—
hearings, 1851, 4126
law, 7029
reports, 496, 5635, 5655
banking and monetary statistics, 11946
banking competition and banking structure, studies, 7015
banking, industry wage survey, 2302
banking structure in evolution, response to public demand—
departmental edition, 1781
document edition, 1794
capabilities of electronic data processing and transmission (remarks), 10510
code of Federal regulations, 7409
collective investment funds, regulation, hearings, 8768
commercial bank liquidity, paper, 16278
commercial banking, floors and ceilings, guidelines and understandings (remarks), 7418
consolidated condition statement, 2694
consumer installment credit, monthly report, 2792
control of time and savings deposits (address), 14623
Council of Ministers USSR grants direct banking credit to kolkhozes, 6140
debits to demand deposit accounts, 5954
deposits of country banks, monthly report, 2852
Federal banks for rural electric and telephone systems—
establish, hearings, 13011
proposed legislation, information, 11211
Federal Banking Commission, need, alternative to fossilization (remarks), 10509
Federal reserve par list, cumulative supplements, 2961
Federal savings bank bill, staff analysis, 7126
federally insured banks, investigation, report, 8739
Banks and banking—Continued
financial institutions supervisory act of 1966—
hearings, 11794, 15963
report, 16101
foreign banking in United States, economic policies and practices, 12840
insured banks—
bank examining and supervisory functions, consolidation, hearings, 1848
maximum rates of interest paid, regulation—
hearing, 14476
law, 15764
report, 16131
offices insured by FDIC, list, 8892
supplements, 3155
report, 2014
savings and time deposits, eliminate unsound competition, hearings, 11645
time deposits, temporary ceilings on interest rates, report, 12976
interest payable on deposits, etc, provide more flexible regulation of maximum rates, hearing, 14474
monetary policy and allocation of commercial bank credit (remarks), 14637
monetary policy, savings competition, and commercial bank lending behavior (remarks), 11947
mutual savings banks, Federal charter legislation—
hearings, 8661
text of bill, with amdts., 10234
national banking review, 3233
naval base at Subic Bay, Philippines, agreement, 11264
nonbanking services, prohibit banks from performing, hearings, 17369
nonmember banks that maintain clearing accounts with Federal reserve banks, 3535, 4392
occupations, employment outlook, 9297
research on banking structure and performance, 8926
reserve requirements, nonpar banks and membership in Federal system (remarks), 10513
role of central banker (remarks), 11951
time and savings deposits, 10514
changes, Dec. 1965–May 1966, 17660
will small banks survive? (remarks), 5958
see also Federal home loan banks—Federal intermediate credit banks—Federal land banks—Federal reserve member banks—State banks—*also* headings beginning Federal reserve—*also* names of banks or places where located.
Baptists, poisonous ideology, USSR view, 7577
Barahona, Jorge R., relief, 1812
Baran, Saul, remarks, May 26, 1966, 10687
Barany, Ronald, glass-crystal transformation of nepheline and wollastonite and heat of formation of nepheline, 10922
Barbados:
agricultural products, demand, supply, and imports, projected levels to 1975, summary and evaluation, 11865
eocene echinoids from Barbados, 18097
Peace Corps program, agreement, 2590
Barbee, William D., deep circulation, central north Pacific Ocean, 12762
Barbers, employment outlook, 9211
Barbour County, W. Va., preparation characteristics of coal, 4792
Barendsen, Robert D., higher educational institutions in Taiwan, 10424
Bargaining cooperatives look to future, 14595
Barite, minerals yearbook chapter, 16553
Barium carbonates, anhydrous, heats of formation and free energies, 13698

239-221—67—No. 863——10

Barium fluoride:
eutectic for self-lubricating composites of porous nickel, etc., 12357
solid, ionic conductivity, 7865
Bark, factors for Douglas-fir, 10570
Barker, David G., relief, 5748, 8457
Barker, L. Keith, thrust-vector orientation technique for establishing lunar orbits, 6458
Barker, Richard P., relief, 5748, 8457
Barnard, J. Laurens:
maritime amphipoda of atolls in Micronesia, 2466
marine amphipoda of family Ampithoidae from southern California, 5042
Barnes, D. K., flower color inheritance in diploid and tetraploid alfalfa, 6783
Barnes, Farrell F., geology and coal resources of Beluga-Yentna region, Alaska, 14746
Barnett, J. P., cone and seed characteristics of sand pine, 5997
Barnett, Ralph L., prestressed and segmented brittle structures, 10970
Barnhill, John T., water quality act of 1965 (P.L. 89–234), 4540
Barnoski, R. L., maximum response of linear mechanical oscillator to stationary and nonstationary random excitation, 4807
Barns:
free-stall dairy system for 101 cows, farm building plan, 16933
saddle horse, farm building plan, 15454
Baroch, Charles T.:
thorium, 13702
uranium, 16587
Baron, Frank J., seeding conifers and buffer crops to reduce depredation, 17687
Baron, Melvin L., ground shock effects due to Rayleigh waves generated by sonic booms, 9424
Baron, Norton:
elastic and inelastic scattering of 40-Mev alpha particles from even tin isotopes, 1252
manufacture of lithium-drifted silicon surface-barrier semiconductor counters, 15166
Baron, Sheldon, differential games and manual control, 16704
Baroque literature, medical symbolism in books, 12395
Barr, Donald R., sequential decision rules for multiple choice problem, 9411
Barr, Joseph W.:
remarks—
Nov. 23, 1965, 1523
Jan. 25, 1966, 5193
Feb. 10, 1966, 6679
Mar. 11, 1966, 6673
Apr. 16, 1966, 9753
June 24, 1966, 12549
Aug. 6, 1966, 14052
Aug. 16, 1966, 15400
Sept. 13, 1966, 15399
Sept. 20, 1966, 16889
Oct. 4, 1966, 16885
Oct. 6, 1966, 16882
Oct. 13, 1966, 16887
Oct. 16, 1966, 16886
Oct. 21, 1966, 16888
Barracks and quarters:
charges for Government-owned quarters at Mount Edgecumbe, Alaska, by Public Health Service, GAO review, 14735
troop housing, Navy design manual, changes, 1569
Barranger, John, hysteresis and eddy-current losses of transformer lamination viewed as application of Poynting theorem, 1276
Barrels, steel shipping, current industrial reports, 2817, 11466
Barrett, Ashton C., remarks, Jan. 21, 1966, 5938
Barrett, James W., spacing and understory vegetation affect growth of ponderosa pine saplings, 2063
Barrier coatings, *see* Coating materials.
Barrier materials, cuprous selenide and sulfide form improved photovoltaic barriers, 4862
Barrington, A. E., ionospheric simulator survey, 10950
Barry, Helen C., pesticide analytical manual, 11985
Bars (metal, etc.):
Federal item identification guides for supply cataloging, supplements, 2935
Barstow formation, San Bernadino County, Calif., potash feldspar, economic value, 2094
Bartelt, Dean P., relief, 4078
Barth, V. D., tungsten power metallurgy, 1199
Bartha, Steven, VTOL blast controlling platform, 4335
Bartley, Robert T., nomination, hearings, 4215
Barton, Manes:
fall water supply summary for Nevada, 16834
water supply outlook and Federal-State-private cooperative snow surveys for Nevada, 3691
Bartosiewicz, John J., containers and packaging, quarterly industry report, 2795
Basalt:
acid fumarolic gas from Kilauea Iki, Hawaii, chemical effect on basaltic pumice, 4523
Yakima, and Ellenburg formation of south-central Washington, 13402
Basaltic rock, *see* Rocks.
Bascom, W. D.:
adhesion of ice to hydrophobic surfaces, 15252
adsorption of n-octadecylamine, n-octadecanoic acid, and n-octaadecyl alcohol from nonaqueous solution onto hydrated and dehydrated metal oxide surfaces, 6540
origin and removal of microvoids in filament-wound composities, 2494
Base closures and reductions, hearings, 8656
Basebagill, William J., air contaminant measurements at Roosevelt Field, Nassau County, N.Y., 7989
Basements, attenuation of air-scattered radiation, 3846
Bases (chemistry):
electrochemical analysis by emf, conductance, optical, and kinetic methods, 16717
Basic and Applied Sciences Branch, activities report, 1965, 1410
Basic military requirements, 6526
Baskets, cotton basket-storage systems, California and Texas, cost, 1964, 50
Bassio, Guiseppe, relief, 13107
Basutoland, *see* South Africa.
Bates, Dorothy M., National Science Foundation, general review of first 15 years, 4088, 12849
Bates, Robert E.:
household furniture, 3890
logging camps, sawmills, and planing mills, 6897
millwork, plywood and prefabricated structural wood products, 3889
office, public building, office and store fixtures, and miscellaneous furniture, 6899
wooden containers and miscellaneous wood products, 6898
Bates, Robert G., aeroradioactivity survey and areal geology of parts of Ohio and Indiana, 11418
Bates, Roger G., electrochemical analysis, studies of acids, bases, and salts by emf, conductance, optical, and kinetic methods, 16717

Bates, Roy E., defining cold regions of Northern Hemisphere, 16958
Bathythermographs:
accuracy indexes, USSR study, 13468
altas of data, Indian Ocean, 15231
Bats, vampire, Desmodus rotundus, temperature regulation, 81
Battalions:
field artillery battalion, Little John, Army Dept. field manual, 12651
tank units, Army field manual, 8252
Batte, William G., digital higher order interpolation path controller, 15182
Battelle Memorial Institute, Coast and Geodetic Survey's products and services as related to economic activity in U.S. continental shelf regions, study, 10002
Batteries, *see* Electric batteries—Storage batteries.
Batteries (tests), *see* Aptitude tests.
Battle act, *see* Exports.
Battle of the bush, 15471
Battle of New Orleans Sesquicentennial Celebration Commission, final report, 3861
Battlefields, *see* names of battles or battlefields.—*also* names of certain national parks, etc.
Battles, *see* names of battles, or places where fought.
Batty, J. Vance, radioactive techniques for continuously measuring flotation froth density, etc., 17864
Bauer, Donald J., extraction and separation of selected lanthanides with tertiary amine, 13693
Bauer, Frederick L.:
industry wage survey—
fluid milk, 4719
paperboard containers and boxes, 9331
wood household furniture, except upholstered, 10872
Bauer, Helmut F.:
interaction of structure and liquid in sound suppressor system, 4926
liquid behavior in reservoir of sound suppressor system, 4921
Bauer, Mary L., occupational health nurses, initial survey, 13979
Baumal, Allan, relief, 15830, 17449
Baumeister, Kenneth J.:
creeping flow solution of Leidenfrost phenomenon, 2419
metastable Leidenfrost states, 7824
Bauxite:
census of mineral industries, 1963, industry statistics, 11457
deposits—
Georgia, northwest, 10631
southeastern United States (series), 2091, 10631
disposal from national stockpile—
law, 8470
reports, 7185, 8578
in areas adjacent to and between Springvale and Andersonville districts, Ga., 2091
minerals yearbook chapter, 17834
report, quarterly, 2701
suspension of duty, continue—
law, 10091
reports, 8560, 10301
Bayard-Alpert ionization gages, *see* Ionization gages.
Bayer process, cost estimate for producing alumina, 2356
Bayesian learning processes, *see* Decision-making.
Baylor, John L., anisotropic viscolastic sandwich shells, 6344
Bayo, Francisco, retirement experience of old-age beneficiaries, 8022
Bayroff, A. G., methods for improving enlisted imput, current research activities, 15524
Bays, *see* names of bays.
BDOO, *see* District Office Operations Bureau, SSA.
BDSA, *see* Business and Defense Services Administration.
Beaber, H. C., floods of Mar. 1964 along Ohio River, 831
Beach, Norman E.:
compatibility of plastics with liquid propellants, etc., 8817
Government specifications and standards for plastics, covering defense engineering materials and applications, 17614
Beach erosion, control, engineering and design, manual, 11892
see also names of localities.
Beachem, C. D.:
electron microscope fracture examination, to characterize and identify modes of fracture, 1377
interpretation of electron microscope fractographs, 9597
Beaches, nourishment requirements, Presque Isle Peninsula, Erie, Pa., factors affecting, 8858
Beacons:
high-intensity flashing powered by mercury cells, 1236
radar, for air traffic control, evaluation of servo-altimeter displays, final report, 7975
Beagle, Edward G., jr., relief, 12887
Beam, Alfred E., MAMOS, monitor system under IBSYS for IBM 7090/7094, 10955
Beam splitter used in dual filming technique, 6398
Beams:
built-up cantilever, in vacuum environment, damping characteristics, 1251
inflated thin-wall cylindrical, theory, 12348
lateral stability of deep beams with shear-beam support, 5991
rotating beam fatigue test, cryostat modification, 7760
tapered, tables of natural frequencies and nodes for transverse vibration, 9417
errata, 10936
tapered wood, deflection and stresses, 4462
uniform, with linearly varying in-plane and axial load, eigenvalue problem, 15056
vibration in bending modes using lumped parameters, mathematical model, 9518
see also Electron beams—Ion beams—Laser beams.
Bean, B. R., radio meteorology, 7917
Bean, John E., research in State departments of education, 654
Beans:
dry, control insects that attack in storage, 6740
market diseases, 16920
pole, prepackaging in trays and polyethylene bags, 8129
Bear Creek, watershed area, economic and resource development, summary, 2602
Bear River Migratory Bird Refuge:
birds, list, 14665
general information, 14657
Beard, Harold C., radiochemistry of arsenic, 1678
Bearden, J. A., atomic energy levels, 1680
Bearing puller facilitates removal and replacement of bearing assemblies, 17894
Bearings (machinery):
aeronautical antifriction bearings, maintenance, handbook, 11157
anti-fraction bearings manufacturers shipments and unfilled orders, 16988
assemblies, bearing puller facilities removal and replacement, 17694
ball bearings—
lubricating, 12435
polytetrafluoroethylene lubricates in vacuum environment, 6405

Bearings (machinery)—Continued
bearing alloys with hexagonal crystal structures provide improved friction and wear characteristics, 15103
Federal item identification guides for supply cataloging supplements, 2932
life and failure distribution as affected by actual component differential hardness, 1267
squeeze film bearings, conceptual design, 12294
Bears:
black—
heart rate, in relation to age, 6798
milk, composition, 6799
Beasley, Gary P., altitude and descent rate for safe abort during terminal phase of lunar landing, 13830
Beaufait, William R.:
backfires and headfires in pine needle fuel bed, 5980
fire planning in Intermountain West, 14713
Beaumont, E. C., geology of Kayenta and Chilchinbito quadrangles, Navajo County, Ariz., 816
Beaumont, Tex.:
area wage survey, 13599
commodity transportation survey, production area series, 8346
Beautification:
America, 5-cent commemorative postage stamp—
poster, 15259
1st day ceremony (remarks), 16784
beautifying America begins at home, 15469
beauty for America, White House Conference on Natural Beauty, proceedings, 2626
creative conservation of natural beauty (address), 5288
highway program—
costs, 1967 estimate, instruction manual, 11204
report, 546
highways to beauty, 8008
natural beauty, report, 2517
preservation of America's natural beauty and enhancement of landscape, Federal-State coordination (remarks), 14328
Beauty for America, proceedings of White House Conference on Natural Beauty, Washington, D.C., May 24–25, 1965, 2626
Beauty operators, employment outlook, 9211
Beauty, Natural, White House Conference on, *see* White House Conference on Natural Beauty.
Beceiro, Daniel Pernas, *see* Pernas Beceiro, Daniel.
Bechill, William D.:
progressing toward new day for older American, 10655
statement, Nov. 2, 1965, 5
Bechuanaland, *see* South Africa.
Beck, H. L., further studies of external environmental radiation, 11424
Beck, W. J., Northwest Shellfish Sanitation Research Planning Conference, proceedings, 2526, 15276
Becker, Robert M., probability distributions with special reference to mineral industries, 12241
Beckering, Willis, cell with 4 variable compartments for rapid infrared analysis, 10925
Beckerley, James G., significant achievements in planetology, 1958–64, 10976
Beckman, Theodore N., wholesaling, 16820
Becoming a citizen series, 2110, 4543–44
Becraft, George E., mineral resources of Spanish Peaks, primitive area, Mont., 12015
Bed springs, *see* Bedsprings.
Bedding:
current industrial reports, 11464
excess, utilization, etc., by Defense Dept., GAO report, 13386
Bedrest, *see* Rest.
Bedrock, Grand Lake area, Maine, geology, 815
Beds, excess, utilization, etc., by Defense Dept., GAO report, 13386
see also Bedsprings.
Bedsprings, current industrial reports, 2817, 11465
Bee moths, greater wax moth, description, control, etc., 1584
Beech, decay and discoloration, organism interactions, 8974
Beef:
carcass evaluation service, 13232
export expansion—
hearings, 14505
report, 564
export trade of Central America, 2054
fed beef economy, interregional analysis, 10409
fresh—
meatpackers' cost, 625
USDA institutional meat purchase specifications, 17600
proximate composition from carcass to cooked meat, method of derivation and tables of values, 3752
world trends, 11989
Beef cattle, *see* Calves—Cattle.
Beem, Arley L., relief, 5628
Beers, R. J., high-expansion foam fire control for records-storage centers, 8285
Bees:
culture, general information, 12579
simplified pollen trap for use on colonies of honey bees, 9773
Beetland, Colo., railroad accident, 12072
Beetles:
California 5-spined ips, general information, 14696
carpet, protecting woolens against, 9819
Cerambycidae (Coleoptera), West Indian, descriptions and records, 5043
elm bark, general information, 3755
Galerucine, with excised middle tibiae in male, 6496
genus Lexiphanes of America north of Mexico (Coleoptera, Chrysomelidae), 5041
khapra beetle, foreign menace, description, control, etc., 15475
Neobrotica and closely related genera, review, 7940
Oedemeridae of Big Bend region of Texas, 2469
revision of Diaperini of America north of Mexico with notes on extralimital species (Coleoptera; Tenebrionidae), 1324
southern pine, distribution, control, etc., 7452
western pine, general information, 14694
white pine cone, crystallization of white pine resins induced, 4442
Before you report for active duty, 3808
Behannon, Kenneth W., design of numerical filters for geomagnetic data analysis, 12338
Behavior:
forest fire patterns, monthly, maps, types, etc., 17696
human, modelling, conferences on programing and automatic control, USSR studies, 13532
intraspecies biologic and behavioral variability studies, computer system, 12643
prophylaxis, with respect to rheumatic fever, factors influencing, 2527
tactical decision making, 8194
visual sampling behavior of human observers, 9408
see also Vigilance.
Behavioral sciences and national security, report, 513, 4090

Beier, Emerson H.:
adopting group health insurance to medicare, 10853
financing supplemental unemployment benefit plans, 12215
Belém, Brazil, ecology of iguanid lizard Tropidurus torquatus, aspects, 14015
Belen, Frederick C., address, Jan. 5, 1966, 2508
Belen'kiy, N. G.
Soviet zootechnician, criticized for poor research practices, USSR study, 17779
Belgium:
background notes, 16845
double taxation, protocol, report, 1887
income tax convention, supplementary protocol, 13074
labor conditions, 13624
mineral industry, minerals yearbook chapter, 10912
mutual defense assistance, agreement, 16862
selling in Belgium, 12781
Belgrade, Yugoslavia:
new laboratory for electric machines in electrical engineering faculty, 16498
Soviet papers contributed to UN world population conference, 10731
Bell, David E.:
addresses—
Nov. 19, 1965, 866
Apr. 5, 1966, 9051
May 30, 1966, 10690
Bell, Earl L., fitting multi-component exponential decay curves by digital computer, 3793
Bell, Edwin A., hydrologic conditions of Louisville area, Ky., 9025
Bell, G. R., quality feed water for Webster, S. Dak., electrodialysis plant, 14773
Bell, Winifred, public welfare demonstration projects focus on education for AFDC youth, 16253
Bell & Howell Corp., President's E award for export excellence (remarks), 10034
Belleck, Joseph K., relief, 15668, 16009
Bellizia, Josephine A., relief, 12891, 14349
Bellows:
design features low spring rate and long life, 10999
hinged bellows restraint has high load capacity, 1217
joint absorbs torsional deflections in duct system, 13767
rubber-coated, improves vibration damping in vacuum lines, 10996
seal fatigue failures, reducing by fluid damping, 11041
undamped face seals in cryogenic liquid, dynamic instability, 4944
universal joint restraint permits angular and offset movement, 2390
Bells, *see* Carillons.
Belman, Albert A., wage chronology, Dan River Mills, 9336
Belorussian Soviet Socialist Republic:
Academy of Sciences—
annual general meeting, 16419
Biological Sciences Department, scientists, activities, 4617
Miniskaya oblast, party and local government cooperation, 9128
roentgenologists and radiologists, 3d conference, 6157
water pollution, 13533
Beloyarsk, Russian SFSR, atomic power plant type reactors, use for dual-purpose desalinization systems, 2198
Beluga-Yentna region, Alaska, geology and coal resources, 14746
Benach Carreras, Bienvenido, relief, 15827, 17444
Bench, Nachman, relief, 17436
Bench marks, leveling computations, control surveys, 10646
Benches, bench vise adapter grips tubing securely and safely, 6382
Bencomo, Luis, E., relief, 17448
Bending moments, *see* Moments.
Bending tests of large-diameter ring-stiffened corrugated cylinders, 7856
Bendixen, Hans, J., leukosis enzootica bovis, 13993
Bends, circular pipe, liquid cavitation studies, 4925
Bendtsen, B. A.:
sorption and swelling characteristics of salt-treated wood, 17697
strength and related properties of randomly selected sample of 2d-growth redwood, 8969
Benedict, Manson, growth of foreign nuclear power, 12685
Beneficiaries:
charter, mortality study, 18098
filing of designation under Federal employees group life insurance and civil service retirement acts—
law, 7037
report, 5790
Benefit series service, unemployment insurance report, 2703
Bengal, Bay of, sailing directions, change, 9579
Benjamin, Judith G., pros and cons, new roles for nonprofessionals in corrections, 14084
Benjamin Harrison, Fort, Finance Center, Army improvement in administrative audit of accrued-leave payments to reenlistees, GAO report, 2082
Benner R. L., thermodynamic properties of ZnO-Fe_2O_3-Fe_3O_4 system at elevated temperatures, 9376, 12242
Bennett, A. H., protoype commercial forced-air precooler, 3732
Bennett, Eugene J., relief, 8525, 12806, 16010
Bennett, John M., choosing form of business organization, 2553
Benson, Robert E., export of Christmas trees from Montana in 1964, 796
Bennett, Robert L.:
nomination—
hearing, 7217
report, 10278
Benton Lake National Wildlife Refuge, birds, 7438
Bentonite, Wyoming, migration and crystallization of interlamellar water during freezing and thawing, 8243
Bent's Old Fort, general information, 6500, 11121
Benzene:
benzenoid chemicals and products, imports, 5185, 14042
bone marrow in oxidation, USSR study, 6147
Benzenoid chemicals, *see* Benzene.
Benzimidazole, *see* Polybenzimidazoles.
Berg, A. I.:
interview on programmed instruction, Chairman of Interdepartmental Scientific Council on Programmed Instruction, USSR, 14791
Soviet Deputy Minister of Defense, views on cybernetics, article, 9167
Berg, Dennis W., beach nourishment requirements, Presque Isle Peninsula, 8858
Berger, E. L., single parameter testing application, 2362
Bergquist, Harlan R., micropaleontology of of Mesozoic rocks of northern Alaska, 12017
Berkeley County, W. Va., soil survey report, 15334
Berkshire Hathaway Inc., wage chronology, 4733

Berlin, Germany:
west—
economic statistics, handbook, 3031
establishing business in, 12774
Bermejo, Bartolomé, Episcopal saint, study in Medieval Spanish symbolism, 9651
Bermuda:
background notes, 1479
weather records, 1951–60, 17638
Bernardine, Albert T., metabolic aspect of effect of altitude on d-amphetamine in rat, 9876
Bernett, Marianne K.:
solution systems for displacing of organic liquids from solid surfaces, 16768
surface chemical displacement of organic liquids from solid surfaces, 12433
Bernhardt, Malcolm E.:
blast furnaces, etc., 8334
fabricated metal products, 6909
fabricated structural metal products, 3900
forgings and miscellaneous primary metal industries, 6906
heating apparatus, except electric, and plumbing fixtures, 6907
iron and steel foundries, 3899
metal cans, cutlery, hand tools, and general hardware, 5447
nonferrous metal mill and foundry products, 6905
screw machine products, bolts, etc., census of manufactures, 1963, industry statistics, 6908
smelting and refining of nonferrous metals and alloys, 5446
Bernot, Peter T., static stability characteristics of cone, etc., configurations, 15162
Bernsten, Bernard P.:
aircraft and parts, 6913
communication equipment, including radio and TV, etc., 11452
electric lighting and wiring equipment, 3902
electrical transmission, distribution, and industrial apparatus, 8336
household appliances, 8337
instruments, surgical, dental, and ophthalmic goods, 11453
miscellaneous electrical machinery, equipment, and supplies, 6912
motor vehicles and equipment, 3903
ordnance and accessories, 8328
photographic equipment, clocks, watches, and watchcases, 3904
ship and boat building, railroad and miscellaneous transportation equipment, 8338
Bernstock, William M.:
bulletin of prosthetics research, 9757
prosthetics research, 18132
Berntson, Byron I., European agricultural guidance and guarantee fund, 11864
Berries, production, use, value, 1964–65 by States, 15379
Berry, L. Joe:
effect of environmental temperature on lethality of endotoxin and its effect on body temperature in mice, 5314
metabolic aspects of tolerance to endotoxin, etc., 5312
Bersamin, Julieta G., relief, 17452
Bertin, John J., effect of protuberances, etc., on pressure and heat-transfer distribution for Apollo command module, 16647
Bertle, Frederick A., effect of snow compaction on runoff from rain on snow, 12494
Bertram, Mitchel H., hypersonic laminar viscous interaction effects on aerodynamics of 2-dimensional wedge and triangular planform wings, 15153
Bertsch, A. A., remarks, Feb. 3, 1966, 5434
Berube, John S.:
bakery products, 6890
beverages, 3885
Berube, John S.—Continued
canned and frozen foods, census of manufacturers, 1963, industry statistics, 6889
dairies, 6888
meat products, 6887
number of operators and fishing vessels, 8327
tobacco products, 1702
Beryllia washer, *see* Washers (metal).
Beryllium:
aging, USSR studies, 6115
armor material for stainless-steel tubes, hypervelocity impacts, 13826
base alloys, USSR study, 13453
characteristics and applications, 11094
chemistry of berylides, USSR study, 14854
content of volcanic rocks, 9012
minerals yearbook chapter, 16554
nickel-beryllium alloy, cold reduction and thermal treatment effect on tensile properties at cryogenic temperatures, 4942
nonpegmatitic occurrence in Arizona, etc., 15029
physical metallurgy, conference, Gatlinburg, Tenn., 6851
reconnaissance, pegmatite deposits in 6 Western States, 13682
recovery from fluoferrate leach residue, 16584
single-crystal, in vacuum, effect of orientation on friction characteristics, 12358
windows, from CEA bubble chamber, investigation, 9922
Beryllium oxide, radiant energy transport in BeO, 1352
Beryllium sulfate, and its hydrates, heat of formation, 6316
BES series, 4323–24, 17629
Bessel functions, spherical Hankel functions of imaginary argument, 1375
Bessie Cutoff, Mississippi River, hydraulic model investigation, 678
Beta rays, telomerization of methanol with ethylene induced, 8290
Bethlahmy, Nedavia, controlling soil movement from steep road fills, 14699
Bethlehem, Pa.:
area wage survey, 10869
commodity transportation survey, production area series, 9952
Bettendorf, Edna S., relief, 8531, 14354, 16043
Beverages:
census of manufacturers, industry report, 3885
vending, food sanitation requirements, 14997
Bewig, K. W., wetting of gold and platinum by water, 9595
Bexar County, Tex., soil survey report, 14023
Beydoun, Z. R., geology of Arabian Peninsula, Eastern Aden Protectorate and part of Dhufar, 17723
Beyster, J. R., integral neutron thermalization, 1677
Bezates, Lambrini, *see* Bexates, Theodora.
Bezates, Theodora, relief, 16054
BI series, 6720–37, 9800–2
Biasing effect of random bit errors on binary telemetry data, 16652
Biaxial leads, *see* Axial leads.
Bible Translation Day, designate Sept. 30, 1966, report, 17480
Bibliography:
access to airports, selected references, 17645
accident prevention, 11377
activated charcoal, 11086
advertising, volume and expenditures, 1457
aerospace, 10974
aerospace medicine and biology, 1201–2, 4836–37, 6361, 7757, 10890, 10983, 12288–289, 15090, 16622
cumulative indexes, 10889, 10982
aerospace science, 12287

Bibliography—Continued
aging, selected references, 3724, 5261–63
AGO special bibliography series, 12577
agriculture, 2704
Air Force, 1959 scientific research, 3773
airborne particle size analysis, 12680
American women workers, 14087
animal research in psychopharmacology, 1431
Antarctic bibliography, 1099
architecture, building, and engineering, supp., 5319
Arctic regions, 5841
arms and armaments, 12627
arms control & disarmament (periodical), 2689
artificial kidney and uremia, 13980
Asia, south and southeast, 7322
atomic energy literature, what's available, 11435
atomic energy program, 6860
atomic transition probabilities, 7916
automatic merchandising, 16822
aviation medicine translations, 12688
ballistocardiography, 1203
beryllium, characteristics and applications, 11094
bibliographic list, Federal Aviation Agency, 17645
bibliographical procedures and style, L.C. manual, 12228
blacktail deer and Roosevelt elk, 10616
bluebunch wheatgrass (Agropyron spicatum), 4436
business use, library basic reference sources, 18092
cancer and virus, 13960
cheese industry in U.S., 6876
chemical and petroleum plants, investment and operating costs, 12235
children's books 7681
China, Communist, strategic survey, 11400
Chinese agriculture prior to 1949, 17935
Coast Guard Auxiliary, publications for public education and membership training, 12768
communications and electronics, supp., 5320
communications satellites, 10981
community general hospital as mental health resource, 13986
community organization for citizen participation in voluntary democratic associations, 1396
compulsory arbitration, 1951–66, selected references, 6249
consumer education, 4431
containers and packaging, 8320
cooling and coolants for electrical and electronic equipment, turbines and reactors, 3989
cooperatives, 685
crambe abyssinica, 14543
crime and delinquency, international periodical), 3074
dairy marketing economics, 13264
dielectric properties of polymers, 13255
dimensional metrology, 12383
disadvantaged children, educating in elementary school, 16229
distribution cost analysis, 16819
Division of Hospital and Medical Facilities publications, 5108
eastern white pine, 10598
education, literature of profession, 16231
electroconvulsive therapy, 11196
electroluminescence, 7918
electromechanical transducers, 6359
emergency health preparedness, 11186
endocarditis, 6576
Engineering Psychology Branch, 1349
English-language materials on Eastern Europe education, 11870
environmental engineering and food protection, 15272
environmental health, 12466
Bibliography—Continued
executive, philosophy, problems, practices, 12656
external research lists, 2576, 11247–251, 12522
extraterrestrial life, 6362
fables, 7683
family care treatment of mentally ill, 12551
family therapy, 7929
farm credit cooperatives, 4349
farm management, etc., 5100
films on aging, 5262
fisheries and limnology in Great Lakes, research on, 11978
fisheries and related services, USSR literature, 10706
flood damage prevention, index, 15389
footwear, 6601
foreign countries, statistical publications, 2993
foreign languages, source materials for secondary school teachers, 7321
forest genetics and related research, annotated, 14715
gardening, 6566
Government employment, 2520
Government research and development reports, abstracts, 3630, 12760
Government-wide index, 3025, 12759
guide for professional reading for officers of Navy and Marine Corps, 16750
handicrafts and home businesses, 12501
health and hygiene, 6804
high elevation research notes, 117
high energy propellants, 9450
high protective coatings for molybdenum and tungsten, 1295
high-temperature kiln drying of lumber, 16336
Hispanic Foundation series, 10892
homemaker services for older people, 5261
hot laboratories, 1683
household appliances and radio-TV, selling and servicing, 12503
housing and planning references (periodical), 3047
hydrology of United States, 6042
ice cream industry, 6881
interior decorating, 2559
ion-molecule reactions, 13864
Job Corps counselor's reference, 11858
labor in Africa, 6269
lasers and masers, 15089
Latin Americanist's, specialists in social sciences and humanities, 10892
laundry and drycleaning, coin-operated and non-automatic, 11221
law enforcement, greater freedom for agencies? debate topic, 466
legal, juvenile and family courts, 9974
lubricants, solid, 6360
lunar surface studies, 9451
manual arts and crafts, 5321
Marine Corps historical bibliographies series, 9349, 10893
Marine Corps in Second World War, 9349
marketing economics research publications, 14534
marketing information guide, 3184
mass spectroscopy, 15533
medical reviews, 7934
medical translations (periodical), 2705, 7935, 15219
medicine, history, 17955
men's and boys' clothing, 2557
mental retardation, world literature, supp., 6493
milk and food, 13987
minority groups, research data, Economic Research Service reports, 16934
mobile homes, 2556
National Agricultural Library bibliographies and lists, 15204
natural environmental radioactivity, 160
Naval history, 7962

Bibliography—Continued
Naval Research Laboratory series, 1349
Navy training publications for advancement in rating, 9592
neuropsychology, 13985
New England economic development, 14007
Nigeria, official publications, guide, 17824
North American geology, 14748, 16357
nuclear weapons and Atlantic Alliance, 8256
nursery business, 12502
occupational health, 6570–71
PACAF basic bibliographies, 1619, 5319–22, 6804, 11377, 12627
Pacific madrone, 10585
particles and fields research, 12291
personal finance and investment, 5322
personnel literature, 3321
photoconductivity, 6476
physiological studies employing radioisotopes, 5401
plant location planning, at look at the labor side, Labor Statistics Bureau publications and studies, list, 14982
price list, selective bibliography of Government research reports and translations, 3989
productivity, 16536
program analysis techniques, 5431
provisions for talented students, 5883
public health bibliography series, 1431, 11196, 12481, 13985–986, 18069–70
pulsed reactors and pulsed critical assemblies, 1684
radioecology, terrestrial and freshwater, 11434
radioisotopes in medicine, 159
reactor safety, 5402
recordkeeping systems, small store and service trade, 1458, 9643
red-winged blackbird, 14677
reference books, 1619
regional cotton mechanization research projects S–2 and W–24, 14104
restaurants and catering, 1459
retail credit and collections, 15324
retail merchandising and promotion, 12504
retailing, 11220
rheumatic fever, glomerulonephritis and streptococcal infections, 18070
right-of-way acquition, supplement, 15313
rural electrification in United States, 1954–64, 17934
sales management for manufacturers, 9644
saline ground-water resources of U.S., 2093
saline water, desalination, membrane technology, 6066
scientific documentation, current research and development, 6597, 15320
shelterwood harvest methods and results for coniferous species, 10613
shorter workweek, 12199
small business, 1457–59, 2556–59, 6601, 9643–44, 11220–222, 12501–504, 15324, 16819–822, 18092–93
smoking and health, 12469
snow, ice and frozen ground, 16957
socio-economic aspects of water resources, 13427
sociological studies of occupations, 1082
soil moisture, investigations on grass-and shrubland soils, 4482
Soviet monographs, 12846
soybean, processing and utilization, 15205
sporting goods, 16821
store arrangement and display, 2558, 11222
sugar beets utilization, 1949–65, Western Utilization Research and Development Division research, 8131
technical translations (periodical), 3574
technology transfer and innovation, 14329
technology utilization bibliography (series), 6357
Bibliography—Continued
television in medical teaching and research, 4319
Tennessee Valley Authority, 12544
program, 11291
terrestrial impact structures, 16356
thermal degradation, oxidation, and analysis of high polymers, 8816
thermally stable elastomers, 11095
thermoplastic and phenolic resin systems, crosslinking, thermal and mechanical properties, 10396
thin film protective coatings, 1296
titanium alloys, 11093
unemployment and retraining, research, 2285
union security and right-to-work, 2286
volunteer services for older people, 3724
water supply and pollution control, 5117
watershed management research, 10601
welding methods, 6357
wholesaling, 16820
wood and wood products, mechanical properties and structural uses, 7455
working with business for business, BDSA publications, 8311
see also names of departments, etc., issuing lists of publications.
Bidding, *see* Government contracts.
El bienestar social en unmondo en desarrollo, la función del bienestar social en el processo de desarrollo, 15425
Bieniewski, Carl L., mineral industry of Colorado, 1119
Bienstock, Herbert, paper, Mar. 11, 1965, 6271
Bienvenidos a los Etados Unidos de Norte America, 15401
Bienvenue aux Etats-Unis!, 15402
Bies, David A.:
flight and wind tunnel measurements of boundary layer pressure fluctuations and induced structural response, 17880
Panel response to boundary layer pressure fluctuations, 10967
Biesecker, J. E., stream quality in Appalachia as related to coal-mine drainage, 7481
Big Bend National Park, general information, 11122
Big Creek area, Calif., principal electric facilities, map, 7378
Big game, *see* Game and game birds.
Big Hole National Battlefield, general information, 6501
Big Kitoi Creek, toxaphene, fish control, 11977
Biggs, Archie A., fireplaces and chimneys, 32
Bighorn Canyon National Recreation Area, establish, report, 12990
Bighorn sheep, desert, general information, 17675
Bilby steel tower for triangulation, 5529
Bile ducts, diseases in children, diet therapy in nephropathy concomitant with, USSR study, 1032
Bill of Rights, *see* Constitution of United States.
Billings, John S., centennial, addresses presented, 13874
Bills (congressional):
armed services, hearings on miscellaneous bills, 569, 7118, 8654, 13015–17, 13019, 14412, 16175–176, 17359
digest, 2855
history, 2782
House-passed bills pending before Committee on Finance, Senate, summary, 10340
Bills of lading, Government, how to prepare & process, 5190
Biloxi, Miss.:
transfer land to city—
law, 17124
reports, 10133, 16144

Bimetallic devices help maintain constant sealing forces down to cryogenic temperatures, 13760
Binary counters:
accumulates time by complementary preset, 4889
uses fluid logic elements, 2396
Binary fluid amplifier solves stability and load problems, 10990
Binary sequence detector uses minimum number of decision elements, 12306
Bingham, James W., Yakima basalt and Ellensburg formation of south-central Washington, 13402
Binkley, Virgil W., economics and design of radio-controlled skyline yarding system, 2076
Bins, potato storage 60,000 cwt. door-per bin, 12610
Bio-acoustics, *see* Sound.
Bioassay, *see* Biological assay.
Biochemistry:
biochemical sciences, biomedical research papers, 1964–65, National Institute of General Medical Sciences, 6487
biochemical studies on acute hydrazine toxicity in mice, 12630
early radiation-biochemical reactions, USSR study, 17785
examinations of members of Voskhod spaceship crew, 12149
indices in ionizing radiation, USSR study, 6220
intraspecies biologic and behavioral variability, 14193
poisons of marine animals, USSR study, 6203
Biochemists:
employment outlook, 9263
radioisotopes, examination announcement, discontinuance notice, 3978
Bioelectronics:
gelatin-coated electrodes allow prolonged bioelectronic measurements, 7764
miniature device accurately measures and telemeters temperature, 6383
Bioenergetics, space suits for lunar exploration, 10975
Bioenvironmental engineering, how you can help solve problems in aerospace medicine, 5316
Biography:
famous Indians, 17734
Latin Americanist's, specialists in social sciences and humanities, 10892
NASA astronauts, space flight team, 7751
sketch of Soviet chemical scientist academician N. N. Semenov, 14882
State Dept., biographic register, 12520
USSR—
botonists, 10714
Goryaynov, K. E., construction engineer, 10793
life scientists, 13476
scientists, 10776, 17796
surgeons, 10738
see also subjects of biographical sketches.
Biological assay:
conference, Oct. 8–9, 1964, Cincinnati, Ohio, proceedings, 145
evaluation of p,p'-DDT as reference toxicant in bioassays, 14674
Biological chemistry, *see* Biochemistry.
Biological effect of ultrasound, USSR, 13564
Biological Laboratory, Beaufort, N.C., annual report, 10527
Biological Laboratory, Galveston, annual report, 16298
Biological Laboratory, Gulf Breeze, annual report, 14651
Biological Laboratory, Honolulu, progress in 1964–65, activities, 8939
Biological physics:
biophysical sciences, biomedical research papers, 1964–65, National Institute of General Medical Sciences, 6487
biophysics in Rumania, 13489
Biological products:
establishments licensed for preparation and sale, list, 13959
notices of activities of licensed establishments, 2707
produced in licensed establishments, list, 14119
regulations, Public Health Service, 1414
Biological sciences, *see* Biology.
Biological Sciences Department, Academy of Sciences Kazakh SSR, scientific activity of institutions, 14923
Biological Station, St. Petersburg Beach, Fla., reports, 11966, 16297
Biological warfare:
agents, Yugoslav comment, 14899
biological agents, employment, Army field manual, 8250
Biologists:
fishery, examination announcement, 9994
radioisotopes, examination announcement, discontinuance notice, 3978
wildlife, examination announcement, 9994
Biology:
activities of scientists in Department of Biological Sciences, Academy of Sciences, Belorussian SSR, 4617
aerospace—
bibliography, 1201–2, 4836–37, 6361, 7757, 10890, 10983, 12288–289, 15090, 16622
cumulative indexes, 10889, 10982
magnetic field effect, USSR study, 13537
agricultural/biological subject category list, 7905
application of philosophy, USSR studies, 9112
arctic biology and medicine symposia, proceedings, 14185
associate training programs, NIH, 5024
Atomic Energy Commission authorizing legislation, 1967, hearings, 8482
Atomic Energy Commission research and development in progress, 9924
bait shrimp, Tampa Bay, Fla., 781
biologic effectiveness of 138-Mev protons as compared to Co^{60} gamma radiation, 94
biological control systems, critical review and evaluation, 16598
biological experiment, gamma-radiation, methods and instrumentation sources, USSR study, 918
biological mechanisms for application to instrument design, summary report on review, 7737
biological problems in water pollution, 3d seminar, 9624
biological research institutes, Yugoslavian study, 1055
biological sciences—
biomedical research papers, 1964–65, National Institute of General Medical Sciences, 6488
Rumania, 10739
biological studies with high energy protons, 2439
biological tolerance to air blast and related biomedical criteria, 144
biology and information, USSR studies, 4623
calcium analysis, improved flame spectrophotometer for determining, 5336
cardiotachometers and biologic data recordings, calibrating, economical time standard, 8210
census of species entering fisheries in Cape Canaveral area, 779
contemporary, philosophical problems, 6200

Biology—Continued
Hungary, biological sciences, development, 14834, 14845
magnetobiology, USSR study, 2180
microwaves effect on biological structures, USSR study, 1020
molecular biology, principles, biology of malignant growth, USSR study, 4655
philosophical problems, USSR studies, 9108
problems, USSR studies, 906
role of cybernetics, USSR study, 2233
Rumania, direct confrontation with life, biological sciences, 9086
simulation, USSR study, 16475
solute and water transport across biologic membranes, 14774
theoretical, conference proceedings, 13725
USSR—
biological science, news, 16451
1st medico-biological faculty, 2151
old and new dogmas, 1002
scientific conferences concerning research in biological sciences, 1007
see also Marine biology—Radiobiology—Space biology.
Biomedicine:
anchor button as attachment for biomedical instrumentation lead wires, 99
bioenvironmental engineering, how you can help solve problems in aerospace medicine, 5316
biological tolerance to air blast and related criteria, 144
biomedical research papers, 1964–65, National Institute of General Medical Sciences—
biochemical and biophysical sciences, summaries, 6487
biological sciences, summaries, 6488
medical sciences, summaries, 5032
bio-medical science—
Communist Chinese abstracts, 2768
East European abstracts, 2665
USSR abstracts, 3671
directory of biomedical institutions in USSR, notice, 2464
semiconductor forms biomedical radiation probe, 12297
translations, bibliography (periodical), 2705
Bionics:
application in field of standardization, USSR study, 10712
brief study, USSR, 6235
problems, USSR studies, 996
2d All-Union conference, USSR, 13496
status and trends in development, USSR study, 14950
USSR studies, 9091
Biophysics, *see* Biological physics.
Biopotentials, signals as function of learning task difficulty, 5068, 6537
Birch:
decay and discoloration, organism interactions, 8974
growth and yield of well-stocked stands in Alaska, 4471
paper birch, seed production, dispersal, and germination, 4469
seedling growth, artificial light sources differ in effect, 790
yellow—
germination, influence of temperature and early spring conditions, upper Michigan, 5983
growth in podzol soil, 800
root development, promote by addition of phosphorus to subsoil, 8958
seedlings, growth response to humus-mineral soil mixtures, 14705
Bird, Kermit, talk, Oct. 29, 1965, 4278
Bird houses, homes for birds, principles of nest-box construction, 10533
Birds:
Bear River Migratory Bird Refuge, list, 14665
Benton Lake National Wildlife Refuge, list, 7438
bird vs. aircraft, 7439
birds in our lives, 16293
Blackbeard Island National Wildlife Refuge, list, 16309
Blackwater National Wildlife Refuge, list, 4416
Bombay Hook National Wildlife Refuge, list, 4415
Cabeza Prieta Game Range, list, 7437
Chincoteague National Wildlife Refuge, list, 16305
Great Meadows National Wildlife Refuge, list, 14666
Harris Neck National Wildlife Refuge, list, 16308
Havasu Lake National Wildlife Refuge, list, 14662
homes, principles of nest-box construction, 10533
Isle Royale in Lake Superior, list, 14676
Kern National Wildlife Refuge, list, 8942
Kodiak National Wildlife Refuge, list, 760
Kofa Game Range, list, 4417
Laguna Atascosa National Wildlife Refuge, list, 14664
Mattamuskeet and Swanquarter National Wildlife Refuges, list, 16303
Medicine Lake National Wildlife Refuge, list, 16306
migratory bird treaty, 5-cent commemorative postage stamp (poster), 5086
Panama, 8020
Pea Island National Wildlife Refuge, list, 16304
protected by Federal law, list, 14680
Salton Sea National Wildlife Refuge, list, 761
Santee National Wildlife Refuge, list, 14663
Socotra and Abd-el-Kuri Islands, list, 18096
Squaw Creek National Wildlife Refuge, list, 16307
Swan Lake National Wildlife Refuge, list, 14667
tick borne encephalitis carriers, USSR study, 9118
William L. Finley National Wildlife Refuge, list, 14668
see also Songbirds—Water birds.
Birge, George W., mechanical strength of coke and iron ore pellets at elevated temperatures, 13696
Birkhead, James W., changes in import duties on tobacco in free world countries, 8948
Birks, L. S., characterization of particulate matter in ocean, 16767
Birmingham, Ala.:
area wage survey, 13595
principal electric facilities, map, 7380
Birth:
and survival of newborn, United States, 1443
live, State definitions, 18078
natality, statistics analysis, 1963, U.S., 9634
natality, vital statistics of U.S., 12490
national natality survey, 1963, methods and response characteristics, 18083
records, where to write, 1447
seasonal variation, U.S., 1933–63, 11200
weight at birth and survival of newborn, 1442
Birth certificates, how to obtain, 4161
Birth control:
family planning, 11482
one aspect of freedom to choose, 13418
oral contraceptives, FDA report, 14685
white-nonwhite differences in family planning, 9029

Biscay, Bay of, sailing directions, change, 9577
Bismuth:
alloy potting seals aluminum connector in cryogenic application, 7792
disposal from national and supplemental stockpiles—
hearing, 10325
law, 10068
reports, 8582, 8751
metal, mineral industry survey, quarterly, 2708
minerals yearbook chapter, 13670
monotonic magnetostriction, 16674
Bits (tools):
drill bit design assures clean holes in laminated materials, 4879
impregnated diamond bits, drillability studies, 12244
multisurface fixture permits easy grinding of tool bit angles, 9478
nylon, removes cork insulation without damage to substrate, 9464
Bitter Lake National Wildlife Refuge, general information, 2041
Bitterbrush:
frost injury in eastern California, 4449
nutrition levels under natural and thinned ponderosa pine, 8963
Bittker, David A., hydrogen-fluorine propellant system, 15195
Bittle, Charles C., improved flame spectrophotometer for biologic calcium analysis, 5336
Bituminous coal, *see* Coal—Coal mines and mining.
Bituminous mines, *see* Coal mines and mining.
Bizon, Peter, T., elastic stresses at mismatched circumferential joint in pressurised cylinder including thickness changes and meridional load coupling, 16677
Bjorkbom, John C., variability of paper birch seed production, dispersal, and germination, 4469
Black Canyon of Gunnison National Monument, general information, 9568
Black cherry, *see* Cherry.
Black-headed budworms, *see* Budworms.
Black Hills, yield tables for managed stands, 13373
Black Hills National Forest, revise boundary, report, 484
Black oak, *see* Oak.
Black Sea:
lights and fog signals, list, changes, 5056, 7958, 13897
mesothorium–I concentration, USSR study, 1068
organic matter in abyssal sediments, USSR study, 6149
Black shale, *see* Shale.
Black spruce, *see* Spruce.
Black walnut, *see* Walnuts.
Blackbeard Island National Wildlife Refuge, birds, list, 16309
Blackbirds, red-winged, selected bibliography, 14677
Blackburn, Robert R., penetration and growth of lift on space vehicle, 1186
Blackmore, Donald J., wages and related benefits, metropolitan areas, United States, etc., 12210
Blacksmiths, employment outlook, 9241
Blacktail deer, *see* Deer.
Blackwater National Wildlife Refuge:
birds, list, 4416
general information, 11975
Blackwell, James A., jr.:
supersonic investigation of effects of configuration geometry on pressure-coefficient and section normal-for-coefficient distributions for 2-stage launch vehicle, 15139
Blackwell, James A., Jr.—Continued
transonic pressure distributions over protuberances and adjacent areas in proximity to nose of launch vehicle, 7821
Blade, O. C.:
aviation turbine fuels, 7704
burner fuel oils, 16569
diesel fuel oils, 4786
motor gasolines—
summer, 4787
winter, 12236
Blade, Robert J., attenuation of sinusoidal disturbances in nonviscous liquid flowing in long line with distributed leakage, 15171
Blades, element performance of axial-flow pump rotor with blade tip diffusion factor of 0.66, 15191
Blaine, R. L., interrelations between cement and concrete properties, sulfate expansion, etc., 13855
Blair, B. E., long-term performance of rubidium vapor frequency standards, 15210
Blaisdell, Fred W., hydraulic design of box-inlet drop spillway, 8143
Blake, Doris H.:
Galerucine beetles with excised middle tibiae in male, 6496
review of beetles of genus Neobrotica and closely related genera, 7940
Blanchard, R. C., solar cycle effects on inner zone protons, 6413
Blast:
controlling platform, VTOL, design and development, feasibility study, 4335
effects on space vehicle structures, 4897
rocket engine tests on expedient surfacing materials, 10440
Blast furnaces:
census of manufactures, 1963, industry statistics, 8334
formcoke for blast furnace use, evaluation, 4797
Blasting:
presplitting rock in presence of static stress field, 16586
quarry, effect of charge weight on vibration levels, 12243
vibration levels transmitted across presplit fracture plane, 1166
see also Explosives.
Blee, Myron R., nomination, hearing, 11790
Blind:
books, recordings, and other materials—
hearing, 11660
law, 17092
reports, 10217, 13134
children, educational programs, 8839
State aid under social security act, 8869
statistics, model reporting area, conference proceedings, 13983
Blindness, flashblindness, experiment in F–101/F–106 simulators, 5331
Blindness, and Neurological Diseases, National Institute, *see* National Institute of Neurological Diseases and Blindness.
Blindess Statistics, Model Reporting Area, *see* Model Reporting Area for Blindness Statistics.
Bliss, James C., experiments in tactual perception, 1183
Blister rust, *see* Comandra blister rust—White pine blister rust.
BLM, *see* Land Management Bureau.
Block, David L., buckling of eccentrically stiffened orthotropic cylinders under pure bending, 7869
Block Island Sound, tidal current tables, 11505
Block signals, automatic systems, installation, maintenance, and repair, rules, standards, and instructions, 16385

Blocks, structures, general approach to solutions of linear programming problems, USSR studies, 10744
see also Earth blocks.
Blood:
acetylcholinesterase obtained from erythrocytes of cattle, isolation, purification, etc., USSR study, 2241
aortic, velocity computed from pressure pulse, 15495
burned animals, toxic and serological shifts, USSR study, 14879
cardiac output and regional blood flow in anesthetized baboon, 12637
cardiac output, computer circuit calculates, 4843
clearing factor, effect of experimental hypoxic hypoxia, USSR study, 930
cross circulation in deep hypothermia, use to study central nervous system changes, 3780
effect of prophylactic administration of mucopolysaccharide preparation on hemopoiesis, USSR study, 6221
existence of plasma flow in pericapillary lymph space, 15146
glucose levels in adults, 15309
hematogenic service in USSR, present and future development, 13516, 16443
hematology and blood transfusion, USSR studies, 974, 10788, 16427
hematology in pediatrics, USSR study, 9066
peripheral arterial, precooling in cold- and warm-adapted rabbits, 3782
rhesus monkey erythrocytes, freeze-preservation, 95
substitutes, experiments with polyglucine and gelatinol, USSR studies, 949
transfusion—
polyglucine used in blood transfusion and radiation sickness, USSR study, 4596
reactions, Soviet research, 10752
under ambulatory conditions in Moscow, USSR, study, 7634
USSR study, 4608
Blood pressure:
arterial pressure conditions at time of poisoning by organophosphorus insecticides, USSR, 17775
hypertension and hypertensive heart disease in adults, 9633
hypertension, electric sleep therapy, USSR study, 12164
Korotkov sounds, frequency analysis using Fourier transform, 8209
measuring system gives accurate graphic output, 2384
renal disease and hypertension, Public Health Service cooperative studies, conferences, proceedings, 15296
research, use of direct force-measuring transducer, 2376
systolic and diastolic, aeromedical assessment without direct arterial puncture, 15558
Blood sugar level, effect of ultrasound and high-frequency noise, USSR study, 12155
Blood transfusion, *see* Blood.
Blood vessels, cerebral vascular crises, USSR study, 13455
Bloom, M. C., gamma-ferric oxide and passivity of iron, 1364
Bloomfield, James B., patient returns to community, 11306
Blowers, current industrial reports, 2818, 12715
BLS report series, 1088–89, 2289–95, 4713–17, 6255, 7662–63, 9204–5, 10854–857, 12207–209, 13591, 14968–969, 16527–528
Blue collar workers, examination announcement, 17035
see also Government officials and employees.
Blue Cross, *see* Health insurance.
Blue Ridge Parkway, general information, 13878
Blue Shield, *see* Health insurance.
Blue spruce, *see* Spruce.
Bluebunch wheatgrass, *see* Wheatgrasses.
Blueprint for aggression, the people's war, 12648
Bluestem, Flint Hills, and Osage pasture report, Kansas and Oklahoma, 15375
Blum, Barton M., on-the-ground demonstration of northern hardwood timber management, 11992
Blum, Henry, plant quarantine import requirements of Mexico, 11341
Blumenthal, W. Michael:
addresses, etc.—
Oct. 28, 1965, 2573
Mar. 12, 1966, 8035
Mar. 16, 1966, 8034
Blunt bodies:
axisymmetric—
at angle of attack, direct method for calculation of flow about, 10951
in supersonic spherical source flow, numerical solution, 7891
flow over blunt body at angle of attack, inverse technique, 9419
roughness effects on boundary-layer transition for blunt-leading-edge plates, 15149
spherically blunted cones, aerodynamic characteristics, 2409
subsonic drag of elliptical forebody, 9519
Board mills, *see* Building board mills—Paperboard mills.
Board of Foreign Scholarships, *see* Foreign Scholarships Board.
Board of Higher Education of District of Columbia, *see* District of Columbia.
Board of Regents of Smithsonian Institution, *see* Smithsonian Institution.
Board of Trustees of Federal Hospital Insurance Trust Fund, annual report, 8495
Board of Trustees of Federal Old-Age and Survivors Insurance Trust Fund and Federal Disability Insurance Trust Funds, report, 8494
Board of Trustees of Federal Supplementary Medical Insurance Trust Fund, annual report, 8496
Boards of Review, Judge Advocates General, court-martial reports, holdings and decisions, 5845
Boatbuilding, equipment, census of manufactures, 1963, industry statistics, 8338
Boating:
Coast Guard Auxiliary, membership invitation, 1765
recreational, statistics, 8409
Boats:
fisheries loans for vessels and gear, 754
ventilation systems for small craft, 11508
see also Nuclear powered ships.
Boatswains, *see* Aviation boatswain's mates.
Bobb, W. H., reduction of shoaling in Charleston Harbor and navigation improvement of Cooper River, S.C., 13298
Bod, Rumania, long-range broadcast transmitter, 12147
Bodies (aerodynamic), *see* Aerodynamics.
Bodies of revolution:
finite rigid, calculation of reflected velocity potential, 12422
low-drag bodies, drag characteristics, 4920
oscillating quasi-slender body theory, 11066
pointed, linearized supersonic flow about, analysis by method of characteristics, 16659
sandwich shells, local stability, 6474
shape effect on sonic-boom pressure distributions, 1270
tangent ogive, Newtonian aerodynamics, 7857
Body (human), *see* Anatomy.

Body and fender repairmen, employment outlook, 9210
Body measurements:
adults, weight by height and age, United States, 1960–62, 11199
height, growth characteristics, USSR study, 6183
see also Anthropometry.
Body temperature:
influence of tranquilizer on temperature regulation in man, problems in aviation personnel, 15556
man, gastric and intestinal, utilization of radiotelemetry for study, 6209
measurement, programed notebook for nursing assistants, 13995
mice, effect of environmental temperature on endotoxin lethality, 5314
precooling of peripheral arterial blood in cold- and warm-adapted rabbits, 3782
regulation in vampire bad desmodus rotundus, 81
responses to cold exposure at night, 77
see also Hypothermia.
Body weight:
adults, height and age, United States, 1960–62, 11199
control yours, 16792
density and fat of adult male population measured by water displacement, 14235
human subjects, monograms for determining height-weight-circumference relation, USSR study, 2277
lower body negative pressure influence on level of hydration during bedrest, 9863
Boe, Kenneth N., natural regeneration in old-growth redwood cuttings, 10581
Boeing Company, Dyna-Soar contract cancellation, effects upon employees, case study, 3809
Boenig, Herman V., pyrolytic products of irradiated cigarettes, 5395
Bogart, Carl D., space-charge-flow computer program, 9522
Bogart, Donald:
boron cross sections as source of discrepancy for capture cross sections in keV region, 11081
Monte Carlo interpretations of sphere transmission experiments for capture cross sections, 11080
Bogden, Arthur E., antigen-antibody responses in rhesus monkey, etc., 95
Boggess, Jennylind, periodicals currently received in NIH Library, 9559
Bohachevsky, Ihor O., direct method for calculation of flow about axisymmetric blunt body at angle of attack, 10951
Bohannan, Billy:
evaluation of commercially made end joints in lumber by 3 test methods, 4466
tension test method for structural-size lumber, 4465
Boilermakers, employment outlook, 9213
Boilers:
materials, construction, etc., marine engineering regulations, 14316
powerstation, increasing operating period between major repairs, USSR study, 1030
Boiling:
forced convection boiling burnout for water in uniformly heated tubular test sections, 8288
in discrete bubble region, effects of subcooling and gravity level, 16651
magnetic-colloid pool-boiling system, zero- and reduced gravity simulation, 6452
nitrogen, visual study of velocity and buoyancy effects, 15138
Boiling water reactors, *see* Reactors (atomic).
Boise City, Idaho, area wage survey, 1092, 17814
Boland, John V., Construction Co., relief, 10107, 14348, 16031
Boldman, Donald R., turbulence, heat-transfer, and boundary layer measurements in conical nozzle with controlled inlet velocity profile, 7822
Boldt, Robert F.:
factoring to fit off diagonals, 9914
multidimensional scaling, 3841
Boley, Dean W., oil-reservoir analysis and predicted recovery by waterflooding, Clinton sand, Logan oilfield, Hocking County, Ohio, 1157
Bolin, Stanley F., team procedures in image interpretation, 14234
Bolivia:
agricultural commodities, agreement, 1497, 1502
background notes, 12515
Chile boundary, study, 11258
mineral industry, minerals yearbook chapter, 4762
Boll weevils, *see* Weevils.
Bolles, Edgar H., talk, May 4, 1965, 14742
Bollinger, Loren E., contribution of combustion noise to overall rocket exhaust jet noise, 9432
Bolometers:
ferroelectric, measure RF absolute power at submillimeter wavelengths, 6377
wedge immersed thermistor bolometer measures infrared radiation, 1206
Bolsons, environment and formation of alluvial fans, study, 817
Bolster, R. N., behavior of metal soap-oil systems, 12437
Bolts (lumber):
southern hardwood, major defects, 10608
Bolts and nuts:
census of manufacturers, 1963, industry statistics, 6908
fastener provides for bolt misalignment and quick release of flange, 12316
modified power tool rapidly drives series torque bolts, 6380
pressure-welded flange assembly provides leak-tight seal at reduced bolt loads, 11039
rock bolts under combined loading, yield and ultimate strengths, 16585
Bombay Hook National Wildlife Refuge, birds, list, 4415
Bombing airplanes, *see* Airplanes.
Bombs and components, Army technical manaul, 11406
Bonanza Airlines, Inc., accident, 282
Bonavito, N. L., computation procedure for Vinti's accurate reference orbit with inclusion of 3d zonal harmonic, 15170
Bond, Deborah T.:
annual digest of State and Federal labor legislation, 7652
State labor legislation passed, 4710
Bond, George F., high pressure living, 6283
Bond, Victor R., recursive computation of coefficients of time-dependent f and g series solution of Keplerian motion, 6463
Bondarchuk, Volodymyr G., biography, USSR, 13479
Bondelid, Rollon O., NRL cyclotron program, 13911
Bonding of materials:
bonded plastic tape used for lining filament-wound fiber-glass cyrogenic propellant tanks, 4950
brazing method produces solid-solution bond between refractory metals, 2389
brazing process provides high-strength bond between aluminum and stainless steel, 13787
chemical bonding of carbides, nitrides, and diborides of titanium and zirconium, 13836
differential expansion provides pressure for diffusion bonding of large diameter rings, 12311
diffusion bonding, broad applications, 7731

Bonding of materials—Continued
diffusion bonding makes strong seal at flanged connector, 11042
dot patterns provide reproducible flaw areas for study of adhesive bonds, 15098
electrolytic etching process provides effective bonding surface on stainless steel, 13736
plasma-sprayed alumina coatings on stainless steel, shear bond strength analysis, 1275
selenium bond decreases on resistance of light activated switch, 1205
thermoelectric bonding study, 4824
Bonds:
open market money rates and bond prices, monthly, 3294
or notes issued by local urban renewal or public housing agencies are incontestable in hands of bearer, opinion of Attorney General, 6248
sales for public school purposes, 4296
sales for water and sewer, 11964
ship mortgage, sale to noncitizens—
hearings, 572
law, 446
TVA power program financing, increase limitation—
hearings, 11682, 14503
law, 15720
proposed legislation, 11607
reports, 10176, 11620, 13160
Virgin Islands, special revenue bond borrowing authority, increase—
law, 17133
reports, 13179, 17212
see also Guaranties and sureties—Savings bonds.
Bonds Creek, oilfield, oil recovery by low-pressure gas drive in Keener sand, Lafayette district, Pleasants County, W. Va., 12253
Bonds of United States, retirement of $30 billion of Government bonds held by Federal reserve banks, hearings, 15964
see also Government securities—Savings bonds.
Bone marrow, *see* Marrow.
Bones:
bone decalcification and tumor research, USSR study, 4621
bone densitometry methods, development, progress, 6352
Bonner, F. T., survival and 1st-year growth of hardwoods planted in saturated soils, 16335
Bonner, Herbert C., memorial services, 17065
Bonneville County, Idaho, geology of Garns Mountain quadrangle, 9010
Bonneville Dam:
fish passage report, 667, 11888
navigation channel improvement, hydraulic model investigations, 11890
Bonneville Power Administration:
appropriations, 1967, public works, hearings, 10229, 16173
generation and sales statistics, 8310, 16985
transmission line construction practices, coordination, GAO report, 8984
Bonus power station, *see* Nuclear reactor power plants.
Bonus system:
code of Federal regulations, 10495
Soviet industrial enterprises, bonus fund for workers, 4668
USSR, new system of planning and economic incentives, 4663
Book lists, *see* Books.
Bookbinding, census of manufactures, 1963, industry statistics, 6900
Bookkeeping machine operators, employment outlook, 9214
Books, Kenneth G., aeroradioactivity survey related surface geology of San Francisco region, 11417
Books:
book selection aids for children and teachers in elementary and secondary schools, 8836
books can build the bridges (address), 7299
braille, for use of blind and other handicapped persons—
hearing, 11660
law, 17092
reports, 10217, 13134
census of manufactures, industry statistics, 3892
children's—
guide for parents, 9827
list, 7681
selected list, 16223
copyrighted, catalog of copyright entries, 4238
Federal item identification guides for supply cataloging, supplements, 2939
former Communist Party chairman publishes book, 14903
Last battle, by Cornelius Ryan—
Soviet colonel reviews, 14925
Soviet commentary, 13494
Library of Congress—
author catalog, 3242
register of additional locations, 2308, 14986
subject catalog, 3146
library, price fixing, hearings, 14492
medical symbolism, Renaissance and Baroque, 12395
new Soviet, reviews on automation and cybernetics, 13484
USSR, cybernetics, 2262
see also Reference books—Textbooks.
Books (talking), *see* Talking books.
Boolean functions, *see* Mathematics.
Booms, sheet metal strip unrolls to form circular boom, 4869
Boone, R. Sidney, service life of telephone poles on Island of Hawaii, 10583
Boosters (rocket), *see* Rockets.
Boots and shoes:
bibliography, 6601
census of manufactures, industry statistics, 3896
industry wage survey, 13617
leather work shoes from Czechoslovakia, determination of no injury to U.S. industry, 14043
Massachusetts shoe manufacturing wage chronology, 6268
safety shoe demonstration, maritime safety data, 7655
shoes and slippers, current industrial reports, 264, 2817
upper leather, visual inspection guide, military standards, 11850
Borchardt, Narnie, voluntary health agency expenditures for research and research training, 5035
Borden formation, *see* Mississippian period.
Border Patrol, Immigration and Naturalization Service, origin and work, 842
Boreholes, gravimetry in petroleum exploration and exploitation, 9017
Borides, diborides in pseudobinary system TiB_2-CrB_2 electrical properties, 1162
Boring:
explosive-expansion center-hole anchor, 4791
ground stress components from measurements of diametral deformation of drill hole, 4801
horizontal mill, use of precision leveling jacks to expedite setup time, 16634
Boring insects, *see* names of insects.
Boring machinery, *see* Drills (tools).
Boris Kidric Institute, Co^{60} radiation unit, irradiation possibilities, Yugoslavian study, 951

Borkowski, Raymond P., beam alignment techniques based on current multiplication effect in photoconductors, 9405
Bormuth, W. D., production of manufactured dairy products, 14038
Borneo, south, southeast, and east coasts, sailing directions, change, 11145
Boron:
amorphous boron powder purification and crystallization by zone refining, prepurification of boron before zoning, 11436
bias determination of mass spectrometric isotopic analysis, using prepared standards and sodium and cesium tetraborate charge material, 11427
cross sections as source of discrepancy for capture cross sections in KeV region, 11081
deoxidized copper withstands brazing temperatures, 15092
filaments, mechanical and physical properties, 4947
influence of additions on physical and mechanical properties of arc-melted tungsten and tungsten-1 percent tantalum alloy, 4973
isotopic mixtures, synthetic, for mass spectrometric determination, preparation, 11426
minerals yearbook chapter, 15000
Boron hydrides, pharmacology and toxicology, 14188
Boron nitride, outgassed, and boron nitride composite, ablative and insulating properties, 17922
Borrowing, *see* Loans.
Bosch, Myriam, relief, 15829, 17446
BOSP series, 1742
BOSR series, 15614
Bossio, Guiseppe, relief, 8519, 12816
Bossler, Robert B., jr., main power system for shaft-driven lift helicopters, 1672
Bost, William E., hot laboratories, bibliography, 1683
Boston, Mass.:
area wage survey, 4721
commodity transportation survey, production area series, 8339
large-trawler labor force, economic study, 10528
nursing homes, conditions and problems, hearings, 1926
post offices, accelerated business collection and postal delivery program, GAO review, 10625
principal electric facilities, map, 7374
wholesale food distribution facilities, 3759
womenpower, shortage or surplus? assessment in industry, Government, and research, conference report, 16912
Boston and Maine Corporation, railroad accident, 6096
Boström, Kurt, surface conditions of Orgueil meteorite parent body as indicated by minerals associations, 14016
Boswell, Victor R., growing eggplant, 8147
Botanic Garden:
appropriations, 1967, legislative—
law, 15727
reports, 10224, 13168, 14395
employees retirement benefits, correct inequity—
law, 15771
report, 17476
remodel existing structures, use as visitors' center, hearing, 13056
Botanical gardens, Donetsk Botanical Garden, Academy of Sciences UKSSR, construction, 1046
Botanists, USSR, biographies, 10714
Botany:
botanical and commercial range of black spruce in Lake States, 5985
50 years of All-Union Botanical Society, USSR, 2268
Bothnia, Gulf of, lights and fog signals, list, changes, 1338, 6523, 9584, 16747
Bottles, plastics, current industrial reports, 260, 1735, 2817, 12720
Botts, Ralph R., farmers' handbook of financial calculations and physical measurements, 16919
Botulism, clostridium, source of toxin in fish, USSR study, 16486
Boucot, Arthur J., paleozoic gastropoda from Moose River synclinorium, northern Maine, 17721
Boulder County, Colo., land conveyance to W. F. Stover, 12865, 14357, 16028
Boulder-Weld coalfield, coal industry, analysis, 6318
Boule flotation, *see* Flotation.
Boundaries:
international boundary studies, 2579–80, 5154, 6635, 8062–65, 9723, 11255–258, 15342
map of United States showing historic boundaries, 13651
announcement and order form, 17999
studies—
Austria-Italy, 5154, 11256
Bolivia-Chile, 11258
Bulgaria-Greece, 2579
Burma-Thailand, 8064
Chile-Peru, 9723
China-U.S.S.R., 8065
Colombia-Panama, 8063
Czechoslovakia-Hungary, 11257
Jordan-Saudi Arabia, 6635
Laos-Vietnam, 11255
Libya-United Arab Republic, 8062
Malaysia-Thailand, 2580
survey of boundary between Arizona and California, 3994
United States and the several States, with geographic information concerning areas, etc., 6030
Boundary layer:
grit-type transition trips, use on wind-tunnel models, 16660
high-speed laminar, application of Eckart reference formulation, 7740
laminar—
and turbulent—
hypersonic pressure and heat transfer tests, 15047
pressure and heat transfer tests on surface roughness elements, 15049
leading edge bluntness and ramp deflection angle effects on separation in hypersonic flow, 6454
on cone in supersonic flow with uniform mass transfer, 9414
magnetohydynamic, between parallel streams of different magnetic fields and temperatures, 7748
measurements, in conical nozzle with controlled inlet velocity profile, 7822, 17911
noise on X–15, flight measurements, 7877
nongrey radiation effects on boundary layer of absorbing gas over flat plate, 16597
pressure fluctuations and induced structural response, flight and wind tunnel measurements, 17880
pressure fluctuations, panel response, 10967
separated flows induced by shock wave-boundary layer interaction, analytical study, 17875
shock waves, occurrence, 4941
supersonic turbulent, perturbed by steps and shock waves, spectra and space-time correlations of fluctuating pressures at wall beneath, 10954
thermal, in confined liquid, 9521

Boundary layer—Continued
transition—
factors affecting, review, 13804
X–15–2 research airplane, analysis, 12360
roughness effects for blunt-leading-edge plates, 15149
turbulent—
pressure fluctuations, 4915
60° and 70° swept delta wings, heat-transfer and pressure distributions, 16697
Bounded phase coordinate control, 9438
Bourdaon gages, *see* Pressure gages.
Boure, J., hydrodynamic instabilities limiting power of boiling water reactors, 15530
Boutin, Bernard L., nomination, hearing, 10330
Bovine brucellosis, *see* Brucellosis.
Bovine leukosis, *see* Leukemia.
Bowen, Hugh M.:
apparent movement phenomena on CRT displays, 2363
study, assessment of pilot proficiency, 15250
Bowen, J. T.:
parasitic copepod Argulus, 11969
parasitic copepods Ergasilus, Achtheres, and Salmincola, 11970
Bowie, Robert R., nomination, hearings, 14481
Bowker, J. Ernest, laundry and drycleaning industry, 1693
Bowles, Gladys K.:
analytical groupings of counties, 631
hired farm working force of 1965, statistical report, 16224
Box cars, unloading of grain at terminal elevators in hard winter wheat area, 15434
Boxes:
field effects of preservative treatment on nail holding, 4467
pallet, hydrohandling system for sorting and sizing apples for storage, 11357
paperboard—
census of manufactures, 1963, industry statistics, 5441
industry wage survey, 9331
Boy Scouts of America:
50th anniversary of chartering by act of Congress, recognize, report, 4100
loan of equipment for 1967 world jamboree and conference—
law, 11588
reports, 10147, 11771
report, 8498
Boyce, John S., jr., needle cast of southern pines, 7451
Boyce, Stephen G., more walnut timber faster, 8951
Boycotts, private boycotts vs. national interest, 15338
Boyd, Alan S.:
remarks—
Oct. 13, 1965, 357
Nov. 12, 1965, 358
Nov. 16, 1965, 348
Nov. 18, 1965, 349
Dec. 2, 1965, 350
Dec. 14, 1965, 1778
Dec. 28, 1965, 1775
Jan. 12, 1966, 4018
Jan. 18, 1966, 4024
Jan. 19, 1966, 4025
Jan. 22, 1966, 4019
May 24, 1966, 10036
July 29, 1966, 12788
Aug. 8, 1966, 12789
Boyer, W. D., litter in longleaf pine stands thinned to prescribed densities, 16334
Boyett, John D., aortic blood velocity computed from pressure pulse, 15495
Boykin, Calvin C., economic and operational characteristics of Arizona and New Mexico range cattle ranches, 5866
Boyle, James R., mineral industry of Tennessee, 1146
Boys' clothing, *see* Clothing.
Boys Town, Nebr., *see* Father Flanagan's Boys' Home of Boys Town, Nebr.
BPR program (series), 5125–27
Brabston, William N., subgrade stabilization with portland cement, etc., under landing mat, 7333
Brachiopods, silicified Ordovician, from east-central Alaska, 9650
Brackish water, *see* Water.
Bradford, E. W., defense industry bulletin, 2844
Bradford, Henry W., cotton cooperatives on plains of Texas, services and benefits, 5908
Bradford, James M., jr., operating parameters of omegatron mass spectrometer in ultrahigh vacuum, 4908
Bradley, Nell B., disabling work-injury experience of oil industry and natural gas industry in U.S., 15004
Brady, Edward L., national standard reference data system, status report, 11098
Bragg, Louis R., radial heat equation and Laplace transforms, 2361
Brain:
animal exposed to ionizing radiation in antenatal period, function and structure, USSR book review, 931
childhood disorders, research progress summary, 1318
cybernetics, USSR studies, 9132
dysfunction, minimal, in children, terminology and identification, 11109
edema, reserpine therapy, 3795
integrative activity, and cybernetics, USSR study, 16436
machine penetrates into secrets, USSR study, 16474
machinery of the brain, book review, 10794
motor formations, functional properties, influence of different grades of hypoxia, USSR study, 1022
neurohumoral mechanisms of reticular formation of brain stem, USSR book, 7606
rats, nitrous exchange during action of pulse accelerations, USSR study, 16421
self-regulation and memory, USSR study, 4640
technology and brain, USSR study, 2231
time constant involved in attention and neural information processing, 9402
see also Electroencephalography.
Brakensiek, D. L.:
numerical techniques for small watershed flood routing, 8125
storage flood routing without coefficients, 14102
Brakes:
magnetic braking coils, optimum design, application to Lewis drop tower experiments, 4910
magnetic, optimum design, 6399
modified hydraulic braking system limits angular deceleration to safe values, 13746
vehicular, identification list for Federal supply catalog, Defense Dept. section, 5851
Bramlage, William J., gamma radiation of fruits to extend market life, 45
Bramlett, Glenn L., soil survey, Gordon County, Ga., 1478
Brandhorst, Henry W., jr., high photovoltages in cadmium sulfide films, 9534
Brandon, George W., jr., heat-shield ablation measurements using radioisotope techniques, 7852
Branford, Fla., railroad accident, 14785
Branstetter, J. Robert, surface temperature measurement by optical and ratio pyrometers, 15193
Brant, A. W., bacteriological, etc., requirements for cleaning eggs, 6759

Brasfeild, Charles W.:
optimum plan for improvements in Nassau Harbor, Nassau, New Providence, Bahamas, 1992
U.S. Navy ship mooring facility, west coast of Point Loma, San Diego, Calif., hydraulic model investigation, 5887
Brasington, Clayton F., jr., hotel and restaurant meat purveyors, improved methods and facilities for custom service houses, 12608
Braskamp, Bernard:
prayers offered in House of Representatives, 89th Congress, 15780
print as H. Doc., report, 10192
Braslow, Albert L.:
analysis of boundary-layer transition on X–15–2 research airplane, 12360
boundary layer transition, 13804
use of grit-type boundary-layer-transition trips on wind-tunnel models, 16660
Brass:
cartridge, homogeneity characteristics of NBS spectrometric standards, 5007
mill, scrap and metal consumption and stocks, mineral industry survey, monthly, 2710
scrap, consumers, mineral industry survey, monthly, 2799
Brassieres, current industrial reports, 12708, 15582
Brattice-cloth, jute line systems, performance characteristics for face ventilation in underground mines, 6317
Braun, C. F., and Company, conceptual design of desalination plant, 6055, 16370
Bray, Donald T., design study of reverse osmosis plant for sea water conversion, 9038
Brayton cycles:
gas-to-liquid heat exchangers for space powerplants, 9430, 10939
space power generation system, turbine performance, evaluation, 4898
space-power system, effect of turbine-coolant flow on thermodynamic performance, 12354
torque requirements for orientation of solar Brayton system in earth orbit, 2427
see also Turbines.
Brazil:
aerial mapping program, agreement, 2592
background notes, 9714
establishing business in, 7009
exchange service for U.S. government personnel, suspension, GAO report, 810
Expeditionary Force in Italy during World War II, report by commander, 9356
foreign trade regulations, 10030
loan of destroyers, law, 426
mineral industry, minerals yearbook chapter, 10913
new data of geological structure of bottom of Brazilian Basin, USSR study, 4638
northeast coastal, reconnaissance for uranium, 5399
Pocos de Caldas Plateau, uraniferous zirconium deposits, 13395
uranium investigations in Brazil (series), 13395
Brazing, *see* Solder and soldering.
Breaching wall of silence, 6690
Bread:
and cereals, golden nuggets, guide for program aides in home economics, 15458
prices, hearings, 15953
Breadboard (electronics), *see* Circuits.
Breakfasts:
school breakfast program for children—
hearings, 13191, 17375
reports, 12985, 13146, 15865, 15890
Breaking sound barrier (address), 1076
Breakwaters:
Nassau Harbor—
improvements, optimum plan, 1992
rubble-mound stability, 679
rubble-mound designs for Dana Point Harbor, Calif., hydraulic model investigation, 14575
with vertical and sloping faces, 8857
Breakwell, John V., theory of minimum effort control, 6330
Bream, *see* Rosefish.
Breast, cancer, 11185
Breast feeding, your baby, 3943
Breathing, *see* Respiration.
Breathing apparatus:
Mines Bureau approved respiratory protective devices, 6287
respiratory devices for protection against pesticides, 5264
respiratory transfer valve has fail-safe feature, 2388
Breccia, solution beds, Madison group, Livingston, Mont., discussion, 4522
Breeden, K. H., submillimeter interference spectrometer, characteristics, performance and measurements, 10961
Breeder reactors, *see* Reactors (atomic).
Breeding, *see* Swine.
Breeding tubercles, *see* Percidae.
Bregman, J. I., application of inorganic ion-exchange membranes to electrodialysis, 7512
Breimyer, Harold F., statement, Mar. 31, 1965, 4233
Brekke, J. E., texture of brined cherries, 8132
Bremsstrahlung radiation, production in aluminum and iron by electron bombardment, 2359
Bren Operation, *see* Operation BREN (bare reactor experiment Nevada).
Brennan, Martin J., keypunch controls for string-punching of statistical data, 5016
Brenner, Edward J.:
addresses—
Nov. 10, 1965, 1393
July 28, 1966, 13913
Aug. 6, 1966, 13915
Sept. 13, 1966, 15256
Oct. 11, 1966, 17983
Bresle, Don, practical limits for balsa impact limiters, 4924
Breuer, Erwin H., strain gage differential weighting system, 8955
Brevoortia tyrannus, see Menhaden.
Brewbaker, James L., what you can expect from atomic-irradiated seeds, 5428
Brewer, Thomas K., basic data on economy of Guatemala, 11517
Brewericeras, *see* Ammonites.
Brice, James C., erosion and deposition in loess-mantled Great Plains, Medicine Creek drainage basin, Nebr., 17717
Brickell, James E., site index curves for Engelmann spruce in northern and central Rocky Mountains, 10567
Bricker, Neal S., solute and water transport across biologic membranes, 14774
Bricklayers:
apprenticeship standards, 15501
employment outlook, 9216
Bricks, *see* Adobe.
Briddon, Arnold E., Federal Aviation Agency historical fact book, chronology 1926–63, 10458
Bridge cranes, *see* Cranes, derricks, etc.
Bridgeport, Conn., commodity transportation survey, production area series, 8340
Bridges:
military aluminum, rigging for airdrop, Army technical manual, 9910
reinforced concrete bridge members, strength and serviceability, 18085
see also names of bridges, or bodies of water to be bridged.
Bridgewater quadrangle, Maine, geology, 4510

239–221—67—No. 863——11

Bridwell, Lowell K.:
addresses, etc.—
Dec. 17, 1965, 1776
Mar. 8, 1966, 5556
Mar. 10, 1966, 5557
Apr. 14, 1966, 8438
Apr. 27, 1966, 8439
Apr. 28, 1966, 8440
May 3, 1966, 8443
May 6, 1966, 8437
May 17, 1966, 10039
May 18, 1966, 10041
June 16, 1966, 11524
June 21, 1966, 10040
Oct. 5, 1966, 15654
Oct. 12, 1966, 17060
Brief cases:
chart case opens to form briefing easel, 7789
current industrial reports, 2817
Briefs of accidents, U.S. general aviation, small fixed-wing aircraft, etc. (periodical), 2711
Brigadier generals:
Medical Service Corps, Army, authorize—
law, 15770
reports, 12992, 17493
Brigantine National Wildlife Refuge, mammals, list, 4420
Briggs, George E.:
laboratory research on team training, 12421
team training research, 5066
Briggs, Ronald C.:
calcium and calcium compounds, 13675
fluorspar and cryolite, 17836
Bright, Richard L., back to drawing boards, progress under title 4 of elementary and secondary act, 13267
Brighter vistas, church programs for older adults, 5260
Brightness, *see* Light.
Brightness profile of day horizon of planet earth, USSR, 16471
Brimmer, Andrew F.:
addresses, etc.—
Oct. 29, 1965, 362
Nov. 30, 1965, 336
Dec. 28, 1965, 1769
Jan. 21, 1966, 3998
Feb. 25, 1966, 5554
Mar. 2, 1966, 5563
Apr. 1, 1966, 7420
June 8, 1966, 10513
July 18, 1966, 11947
Sept. 11, 1966, 14637
Sept. 23, 1966, 16286
Oct. 5, 1966, 16281
nomination, hearing, 5800
Brines, optimum brine heater outlet temperature in sea water conversion evaporators, 12053
Brining, *see* names of commodities brined.
Brink, N. O., research on expandable airlock utilizing elastic recovery principle, 4811
Brinkerhoff, Joris M., narrow band X-ray detector for identification of chemical elements, 6855
Brinkman, Kenneth A., shortleaf pine in Missouri, stand density affects yield, 793
Briquets, fuel, mineral yearbook chapter, 15008
British Columbia, sailing directions, change, 17965
British Guiana:
agricultural products, demand, supply, and imports, projected levels to 1975, summary and evaluation, 11865
mineral industry, minerals yearbook chapter, 6296
British Honduras:
background notes, 1480
investment guaranties, agreement, 11279
mineral industry, minerals yearbook chapter, 7688
British Isles, *see* Great Britain.
British Solomon Islands, *see* Solomon Islands.
Brittle fracture, *see* Fracture of metal.
Brittle materials:
friction loading device enables accurate testing, 13780
prestressed and segmented brittle structures, 10970
Britz, William E., jr., cardiovascular effects of 1,1-dimethylhydrazine, 96
Broadcasting, *see* Radio broadcasting—Radio stations—Television.
Brockton, Mass., commodity transportation survey, production area series, 8339
Broel-Plateris, Alexander A., divorce statistics analysis, United States, 1962, 1444
Brogan, Francis A., comparison of semiautomatic audiometer with manual audiometry, 5332
Broilers, *see* Chickens—Poultry.
Brokaw, Arnold L.:
geology and mineral deposits of—
Mosheim and Johnson anticlines, Greene County, Tenn., 4512
Powell River area, Claiborne and Union Counties, Tenn., 13400
Brokaw, Richard S., ignition kinetics of carbon monoxide-oxygen reaction, 16706
Brokers:
fees for VA property management—
law, 17121
reports, 5650, 16143
real estate, employment outlook, 10864
regulations to govern destruction of records, 6100
Bromine:
dissociation rates in presence of argon, neon, and krypton, shock-tube investigation, 13821
minerals yearbook chapter, 13671
Bronfin, B. R., synthesis of nitrogen fluorides in nitrogen plasma jet, 12426
Brooders, gas-fired infrared chick brooders, radiant energy distribution, 9777
Brooding chicks with infrared lamps, 41
Brookhaven high flux reactor, *see* Reactors (atomic).
Brookhaven National Laboratory:
dedication of new Chemistry Building (remarks), 16977
studies of sites for nuclear energy facilities (series), 13394
Suffolk County, N.Y., postulated liquid-waste releases, hydrologic analysis, 13394
Brooking, Walter J., civil technology, highway and structural options, etc., 11868
Brooklyn Borough, *see* New York City.
Brooks, Cuyler W., jr., hypersonic aerodynamic characteristics of aircraft configurations with canard controls, 9515
Brooks, Frank P., gastroenterology abstracts and citations, 5027
Broome, Joseph H., fluid power systems equipment, shipments and end use, 8317
Broome County, N.Y., population, special census, 12726
Brosgole, Leonard, analysis of induced motion, 7973
Brown, Clarence J., memorial services, 7018
Brown, David S., committees for community shelter planning, 17027
Brown, Donald N., revised design criteria for /T11 landing mat, 7337
Brown, Emma E., abstracts of U.S. APRO research publications, 3842
Brown, H., navigator study of electric propulsion for unmanned scientific missions, 15066
Brown, Hilda J., publications of Southeastern Forest Experiment Station, 4483
Brown, J. Douglas, grand strategy of human resource planning, 4328

Brown, James K.:
estimating crown fuel weights of red pine and jack pine, 7461
firebreak maintenance with soil sterilants, 14707
Brown, Jerry, soils of Okpilak River region, Alaska, 15506
Brown, Kenneth E., lively 3d R, 16237
Brown, Lester R., address, Feb. 8, 1966, 9834
Brown, Mary L., nursing in occupational health, 1426
Brown, Samuel A., German, basic course, 5153
Brown, Sidney E., influence of packaging and labeling on sales of interior Florida grapefruit, 10414
Brown, Stephen C.:
mineral industry of—
Denmark, 2323
Ireland, 4767
Netherlands, 6302
Portugal, 4774
Spain, 7703
Switzerland, 6307
Brown, William T., soil survey, Dyer County, Tenn., 11234
Brown Swiss cattle, *see* Cattle.
Brownell Creek, subwatershed 1, sedimentation, 16363
Browning, James S.:
laboratory processes for washing tetrabromoethane from mineral particles, 6320
selective flotation of mica from Georgia pegmatites, 16575
Brownstein, Philip N., nomination, hearing, 5801
Browse, *see* Forage plants.
Brucellosis:
bovine, eradication, in cooperation with States, 1965, summary, 1576
eradication activities in cooperation with States, summary, 3556
eradication in cooperation with States, summary, 3551
market cattle testing, what you should know, 6762
National Brucellosis Committee, 1965 proceedings, 14
national committee, 1966 proceedings, 11363
prevention, symptoms, etc., 1420
State-Federal cooperative program, progress report, 9790
swine, validated brucellosis-free herds, list, 11337
Brucellosis vaccine, health of persons erroneously vaccinated with large dose BA–19 strain, USSR study, 10832
Brumberg, Abraham, problems of communism, 3417
Brumidi, Constantino, bust, place in U.S. Capitol, reports, 7191, 10215
Bruner, Jerome, learning about learning, conference report, 8847
Brunswick, Ga., port, 13294
Brush fires, *see* Forest fires.
Brushes:
and accessories, Federal standard, 4396
artist's, Federal standard, 4395
Federal item identification guides for supply cataloging, supplements, 2937
Bruun, Johannes H.:
agricultural raw materials for industrial use, 8124
thermal insulation for building construction, 8
Bryan, D. E., application of neutron activation analysis in scientific crime detection, 6852
Bryan, Harry C., almond industry of Italy, 13352
Bryan, Max E., impact testing of long travel shock pallets, etc., for transportability rail instrumentation, 9916
Bryan, W. C., testing shortleaf pine seedlings for resistance to infection by Phytophthora cinnamomi, 5986
Bryant, Bruce, mineral resources of Grandfather Mountain window and vicinity, N.C., 10639
Bryant, E. Earl:
institutions for aged and chronically ill, U.S., Apr.–June 1963, 1440
utilization of institution for aged and chronically ill, 6589
Bryant, Farris, nomination, hearings, 7204
Bryant, Floyd R., damage to field-effect transistors under 22 and 128 MeV proton bombardments, 17915
Bryant, Paul J., extreme vacuum technology developments, 1184
Bryce Canyon National Park, general information, 1327
Bubble chambers, CEA, beryllium windows, investigation, 9922
Bubbles:
boiling in discrete bubble region, effects of subcooling and gravity level, 16651
theory of etiology of decompression sickness as related to high altitude exposure, 5326
Bucci, Don R., spillway and outlet works, Shelbyville Dam, Kaskaskia River, Ill., hydraulic model investigation, 11897
Buchanan County, Va., coal, preparation characteristics, 6325
Bucher, George C., physics of moon, 1243
Buck, K. E., evaluation of radioisotope applications in hydrospace, 11416
Buckley, Donald H.:
effect of orientation on friction characteristics of single-crystal beryllium in vacuum, 12358
friction and wear characteristics of polyimide and filled polyimide compositions in vacuum, 6441
friction characteristics of—
aluminum oxide in contact with various metals in vacuum, 15185
single crystal and polycrystalline aluminum oxide in contact in vacuum, 15190
influence of orientation of grains in tungsten on its friction characteristics, 4970
titanium-aluminum alloys in vacuum, 4969
Buckley, Michael P., relief, 15796
Buckling, *see* Strains and stresses.
Budapest, Hungary:
international conference on observation of artificial satellites, program, 7604
oncological research at institutes, USSR report, 17767
Budding, *see* Cherry.
Budget Bureau:
career staff to the President, 15560
Interagency Committee on Occupational Classification, collection and classification procedures in Federal agencies, progress report, 14245
legislative policy, hearing, 14404
statistical reporter (periodical), 12690
working papers, 14244–245
Budget of United States:
estimates, submitted by the President, 89th Congress, 1st session, 1884
Federal planning-programming-budgeting system (remarks), 16986
1967—
budget in brief, 3862
departmental edition, 3863
appendix, 3864
document edition, 4058
appendix, 4059
District of Columbia—
departmental edition, 3865
document edition, 4060
excerpts from the President's message, 7210
hearings, 7111
special analyses, 5432
planning, programming, budget system (talk), 3866

Budgets, *see* Budget of United States—*also* names of departments, etc.
Budworms:
black-headed—
Bacillus thuringiensis used against, field test, 13361
mortality of overwintering eggs, 13359
oviposition preference and host phenology, 13360
Buffalo, N.Y.:
Ansley Wilcox House acquisition, etc., reports, 505, 17542
area wage survey, 9317
commodity transportation survey, production area series, 9954
principal electric facilities, map, 7374
Buffalo fish, smallmouth and bigmouth in Lewis and Clark Lake, Missouri River, 17676
Buffers, momentum region, effects on coaxial flow of dissimilar gases, 2424
Buffeting load, *see* Load (mechanics).
Bugg, Frank M., low-speed tests of 50°-swept parawings applied to 0.17-scale model of manned flight vehicle, 15144
Bugs, *see* Insects.
Builders, 3 & 2, Navy training course, 5062
Building:
adobe and stabilized-earth blocks, 3757
arctic and subarctic construction, Army technical manual—
building foundations, 12663
calculation of depths of freeze and thaw in soils, 5374
building codes, program for intergovernmental reform, report, 8121
college campus construction and rehabilitation, 14556
computers that hear and speak, USSR study, 12183
construction—
facilities for health research, etc., Public Health Service grants and awards, 6491
higher education facilities, financial assistance, regulations, amended, 11873
materials and practice, Army technical manuals—
acoustical treatment, 1650
builders' hardware, 1649, 9903
calking and sealing, 3832
masonry, 128
movable partitions, 12660
roof decking, 129
materials used in distillation plants, study, 7515
projects, fire safety (talk), 14742
thermal insulation, 8
construction reports, quarterly public, 3935, 11477
development of improved system of wood-frame house construction, 5993
financing capital construction, rules in USSR, 1041
helicopter stations, planning and construction, USSR study, 10809
home construction, publications, price list, 1408
house-framing system for low-cost construction, 15452
housing construction, 1889–1964, statistics, 14280
labor requirements for various types of construction, 7674
library services and construction act—
extend and amend—
hearings, 10239, 11823
law, 12836
reports, 8635, 10170, 16067
Federal allowances and required matching expenditures from State and local sources, 1966, 1978
Building—Continued
materials—
American-made, use in embassy, etc., construction, GAO report, 8992
Federal item identification guides for supply cataloging supplements, 2935
retail trade, employee earnings, 13611
mortgage credit for residential construction, stimulate flow, hearing, 14474
PACAF basic bibliographies, supp., 5319
permits 2784–85, 12704–705, 14263
housing authorized, 2784, 12704–705
summary statistics, 2785, 14263
price-fixing and estimates in construction must be improved, USSR study, 4652
school and hospital construction program, agreement with Burma, 15370
school construction standards, revision to avoid excess seating in dining facilities, GAO report, 9002
sewage and water works construction, contracts awards, 16292
State and local governments, construction expenditures, 3935, 11477
structural engineering, Navy design manual, changes, 6707
transition to new norms and prices in construction, USSR, 4678
urban renewal rehabilitation, minimum property standards, 16272
value of new construction put in place, 1962–65 in U.S., 5458
see also Construction industry.
Building and loan associations:
tax exemption for nonprofit corporations providing reserve funds—
law, 5578
report, 4167
Building board mills, census of manufactures, industry statistics, 3891
Building machinery:
construction machinery and equipment, census of manufactures, 1963, industry statistics, 5448
construction machinery, current industrial reports, 2818
Federal item identification guides for supply cataloging, supplements, 2932
USSR industrial development, translations, 3661
Building materials, *see* Hardware.
Building rural America, 14597, 17644
Building science series, 7909, 11088, 12380, 13855
Building trades, union wages and hours, 13609
Buildings:
administrative facilities, Navy design manual, changes, 1569
control of cracking in mass concrete structures, 1451
decay associated with rain seepage, 16942
Foreign Service programs, inspection in Tokyo, Japan, Hong Kong, Saigon, Thailand, and Wellington, New Zealand, report, 5637
higher education facilities, financial assistance, regulations, amended, 11873
historic American, survey, Wisconsin architecture, 13882
insanitary, condemnation in D.C., amend act, law, 427
long-term leasing by Government contractors, Defense Dept., GAO report, 16344
prefabricated structures, Federal item identification guides for supply cataloging, supplements, 2935
procedures for foundation design of buildings and other structures, Army technical manual, 130
radiation measurements in conventional structures, 3846
residential-type structures in close proximity to underground nuclear detonation, structural response, Project Dribble, Salmon event, 3850

Buildings—Continued
seismic design, Army technical manual, 14223
tall industrial and residential structures, structural response to underground nuclear detonation, Project Dribble, Salmon event, 3851
with fallout shelter, 12747
see also Office buildings.
Buillet, Ernest, relief, 17441
Buisson, J. A., III, look-angle-prediction technique for artificial earth satellites, 12431
Bulbs (plants):
spring-flowering bulbs, selecting, etc., 12604
Bulgaria:
Academy of Agricultural Science, decisions of general assembly, 17783
Academy of Sciences—
candidates for academicians and corresponding members, 12144
proceedings, 16465
agricultural economy in brief, 627
associations and enterprises for geological research, 9178
Central Council of Trade Unions, officers, members, etc., 14848
construction industry, activities of computer center, 13535
contracts and taxes under new system of planning and economic management, 16454
demography, mirror of life, 4605
education, 638
Greece boundary, study, 2579
Institute of Electronics in Academy of Sciences and Scientific Research Institute of Transport, achievements, 13526
inventors and efficiency experts receive awards, 14951
labor conditions, 13625
mineral industry, minerals yearbook chapter, 1117
National Assembly's permanent commission on industry and energy progress noted at session, 14952
National Conference of Scientific Societies of Pharmacists, 10718
People's Republic, structure of veterinary service, 9089
planning system, changes, indicators, sequence and methods, 13572
provincial press, summary, 3557
scientific and technical research, financing system, 13529
scientific and technological progress, 14954
training program, improving for computer equipment, 16507
Bulletins, *see* Farmers' bulletins—*also* names of departments, etc., issuing bulletins—*also* subjects.
Bullis, Harvey R., jr., exploratory fishing and gear research, 10524
Bulls, DHIA sire summary list, Ayrshire, Guernsey, etc., 11, 6713–14, 12581
Bumpers, meteoroid, single, influence of bumper and main wall material on effectiveness, 1269
Bunch, D. F.:
controlled environmental radioiodine tests, 15531
dose to various body organs from inhalation or ingestion of soluble radionuclides, 15532
Bundy, William P., address, Feb. 12, 1966, 8057
Bunker oil, *see* Fuel oils.
Buoyancy effect on critical heat flux of forced convective boiling in vertical flow, 16707
Buoyant Stokes litter assembly used for sea rescue operations, 4856
Buoys, instrumented telemetering deep sea buoys, 315
Burbank, Jeanne, plate materials of lead-acid cell, anodic oxidation of basic sulfates of lead, 12429
Burchfield, H. P., pesticide residues, 7993
Burchinal, Lee G.:
how to put two and a half tons of research into one handy little box, 8845
rural youth in crisis, facts, myths, and social change, 1541
Burdick, D. C., color cathode ray tube displays in combat information centers, 6552
Burdick, Lawrence T., performance, story of the handicapped, 3319
Burgess, John, mineral industry of Peru, 7701
Burgin, Vera E., decisions of Department of Interior, 13428
Burials:
veterans, allowances, amend law—
law, 5585
reports, 4083, 5765
Burke, C. E., Engineering Psychology Branch bibliography, 1349
Burke, J. Henry, citrus industry of Greece, 8950
Burke, Idaho, rock deformation measurements in Star Mine, analysis, 9370
Burkhalter, Philip G., measurement of backscattered electrons in electron probe microanalyzer, 1155
Burleson, W. E., mineral industry of New Mexico, 2336
Burley tobacco, *see* Tobacco.
Burlington, Vt., area survey, metropolitan area, 10870
Burma:
agricultural commodities, agreement, 15370
background notes, 1481
gazetteer, official standard names, 12010
minerals industry, minerals yearbook chapter, 4763
school and hospital construction program, agreement, 15370
Thailand boundary, 8064
Burner fuel oil, *see* Fuel oil.
Burners and welders (general), 7660
Burnett, Earle S., calibration of rotating piston deadweight gage by means of mercury column, 15025
Burning of land:
broadcast burn in 2d-growth clearcuttings in north central Sierra Nevada, 17686
petroleum gel as slash ignition aid and fuel booster, 10584
prescribed burning—
Douglas-fir in south-central Idaho, 16337
effect on habitat of Powhatan Game Management Area, 16329
pringle manzanita chaparral shrub seedling regeneration after burning, 2072
response of herbaceous vegetation to prescribed burning, 10586
watershed rehabilitation, emergency revegetation in southern California, 10605
Burns, C. D., CBR design curves for runways to be surfaced with steel landing mat, 10441
Burns, Rowland E., discontinuous state variables in calculus of variations, 11071
Burns, W. C., creep feeding beef calves in Florida, 3767
Burns and scalds:
burn injury, involvement of respiratory tract, USSR study, 6145
eclipse burns in humans and laboratory threshold measurements in rabbits, 12634
Burr, Mildred P., basic data on economy of Trinidad and Tobago, 4011
Burroughs, Lester R., power transmission studies for shaft-driven heavy-lift helicopters, 137

Burson, Z. G.:
attenuation of air-scattered radiation in basement, 3846
radiation measurements in typical residential structures, 15527
Burt, Eddie C., boll weevil control in field experimental with machine designed to destroy shed cotton squares, 14106
Burt County, Nebr., bridge across Missouri River, refinancing, authorize, law, 429
Burundi:
background notes, 16846
mineral industry, minerals yearbook chapter, 9362
Bus mechanics, *see* Mechanics (persons).
Buses, *see* Motorbuses.
Bush, Joseph C.:
industry wage survey—
communications, 4729
nonferrous foundries, 10873
southern sawmills and planning mills, 17811
Bush, W. E., handbook of analytical procedures, 8292
Bushes, *see* Shrubs.
Bushnell, Dennis M., interference heating on swept cylinder in region of intersection with wedge, 2411
Business:
acceptance of Business Speaks award on behalf of President Johnson (remarks), 1521
administrative management course program, topics, 2553, 5136–37, 6598–99
aids, overseas investment, 7529
BDSA publications, list, 8311
Bulgaria, new system of planning and economic management, contracts and taxes, 16454
census, 1963—
area statistics, announcement and order form, 14248
EC series, 223, 1707
major retail centers—
area statistics, 184,1698
summary report, 1698
merchandise line sales, announcement and order form, 8323
retail trade—
area statistics, 185–192, 3875–76, 5438, 6883, 9946–49
area statistics, advance reports, 2737
subject reports, 193–196, 8325
selected services—
area statistics, 197–198, 3877–80, 6884, 15566
area statistics, advance reports, 2737
subject reports, 200–203, 1699, 6885
summary statistics, advance reports, 2738
special report, 6886
wholesale trade—
area statistics, 204–206, 3881–83
area statistics, advance reports, 2737
area stastistics, bound volume, 15565
subject reports, 207–208, 8326, 1700–1
census publications, price list, 5101
choosing form of organization, administrative management course program, 2553
COBOL, programming language for computers, 5844
college graduates' road to success (address), 6995
community and balance of payments, voluntary cooperation (address), 1780
conditions, national summary, 3241
county business patterns—
bound volumes—
Alabama-Illinois, 9960
announcement and order form, 14268
Indiana-Missouri, 8350
Montana-Oregon, 9961
Pennsylvania-Wyoming, 14267
U.S. summary, 8349
Business—Continued
county business patterns—continued
CBP series, 225–244, 1711–30, 3911–18, 5459–71, 8349–50, 14264–268, 15577–580, 16999–17005
United States summary, 5459
credit and assistance, code of Federal regulations, 7410
cycle developments, report, 2718
defense, more for sheltered workshops, highlights of panel discussion, 2288
directions for conversion of enterprises to new system of planning and economic incentive, USSR study, 6144
economic prospects for 1966 (address), 333
economic prosperity brings problems (address), 15641
economist and government (remarks), 15642
EDA loans, how to apply, 1965, 4263
enterprise statistics, 1963, preliminary reports, 11475
equal employment opportunity is good business, 4347
establishing in—
Austria, 12771
Brazil, 7009
Colombia, 11514
Federal Republic of Germany and West Berlin, 12774
Greece, 8433
Liberia, 12779
Pakistan, 343, 15651
Philippines, 4013
Singapore, 10029
executives, industrial civil defense management special instructions, 17026
executives march ahead, Ghana request shows progress by U.S. volunteer international corps, 14781
exports mean more sales (address), 6994
Government relations, partnership for progress (remarks), 7012
Government relationships with business has and will stimulate national growth (remarks), 334
home businesses, bibliography, 12501
indexes, monthly, 2719
information dissemination by Government (remarks), 1777
international, publications, checklist, 4577, 14782
mail, accelerated collection and delivery program, Baltimore, Boston, and Washington, D.C., post offices, GAO review, 10625
management—
chief business officers, colleges and universities, job characteristics, etc., 17619
college and university guide, 1977
selected colleges and universities, 8837
NATO, how U.S. companies can participate, etc., 1691
Navy prime contractors, selling to, directory, 1387
outlook for 1966 (speech), 360
overseas business reports, 339–347, 1772–74, 3304, 4004–15, 5550–52, 7006–11, 8430–33, 10023–30, 11513–521, 12771–786, 14323–327, 15645–651, 17055–58
publications, price list, 5099
responsibility to consumers (address), 10015
role in dealing with conditions of our times (address), 8416
role in efficient maintenance of our free-enterprise economy (address), 11174
safeguarding your business and management succession, administrative management course program, 5137
scientific and technological advances, State-Federal coordination (remarks), 14328
service checklist, guide to Commerce Dept. publications, weekly, 2720

Business—Continued
single units and multiunits, retail trade, census of business, 1963, 194
small business—
act, amend—
hearings, 4211, 8662–63, 8681, 10267
laws, 435, 10060
reports, 5785–86, 7102, 8570, 8615
administrative management course for owners, 14011
bibliographies, 1457–59, 2556–59, 6601, 9643–44, 11220–222, 12501–504, 15324, 16819–822, 18092–93
corn marketing by Commodity Credit Corporation, impact, hearings, 15992
corporations, amend internal revenue code—
law, 8465
reports, 5649, 7176
displaced, economic injury disaster loans, management and technical aid, 11218
distribution problems, hearings, 14495
export marketing, manual, 15323
financial assistance programs, summary, SBA, 16823
government activities affecting, report of Attorney General on administrative debarments of contractors, 1928
IMP, intra-industry management program helps business help itself, 8018
investment act amendments of 1966—
hearings, 14477, 15963
report, 15937
investment companies, investigation, hearings, 16187
investment company program, review, hearings, 16179
investment company, starting, 12505
location and layout, administrative management course program topic, 6598
management series, 6602
management, sources of assistance and information, 6599
managerial skills and experiences available from SCORE, 6600
nursing part time in industry, guide for voluntary and official agencies, etc., 1427
participation in government procurement programs, hearings, 11834
problems in urban areas, hearings, 531, 1869, 4147, 15993
problems, investigation, authorization, report, 4203
procurement, conferences of Senate Small Business Committee staff members with business representatives, 7238
products list circular, new products development, 3421
programs in Government agencies, 1966 Federal handbook, 10372
regional procurement—
New England, hearings, 7237
New Mexico, hearings, 7237
New York State, hearings, 14506
regulatory and enforcement agencies, activities relating to, hearings, 15990–991, 17395
relocation assistance, report, 13155
role in air transportation industry, hearings, 14442
starting and managing series, 9645
subcontracting and set-aside programs, hearings, 7165
tax guide, 2124
announcement and order form, 17997
waging war on poverty through economic opportunity loans for small business, small business development centers, 18094
Small Business Administration management publications, classification, 9642
Business—Continued
special current business reports (series), 8368
statistics—
biennial edition, 181
Federal reserve chart book, 2960
historical supplement, 16279
weekly, 2721
survey of current business (periodical), 3567
weekly supplement, 2721
use, basic library reference sources, bibliography, 18092
see also Retail trade.
Business administration, *see* Business.
Business and Defense Services Administration:
aids to modernization, guide to government services, 1690
Executive Reserve Program, general information, 16989
official texts, 2702
press releases, 3345
publications, list, 8311
Business and public administration notes, 2717
Business consolidations:
approaches and problems in merging cooperatives, 13304
bank mergers, applicability of anti-trust laws—
hearings, 1851, 4126
law, 7029
reports, 496, 5635, 5655
cement industry, mergers & vertical integration, 11957
Business cycles, cycles and cyclical imbalances in changing world, 2025
Business Economics Office, press releases, 3346
Business education, business and public administration notes, 2717
Business machine mechanics, *see* Office machine servicemen.
Business machines, *see* Office furniture and equipment.
Business men:
American, to share fruits of our business and industrial ingenuity with other people everywhere (address), 6994
businessman's role and balance of payments (remarks), 9744
businessmen of defense, career opportunities in Defense Supply Agency, 17605
how to do business with—
Defense Supply Agency, 16212
SCORE, 6600
speak out for modernization, 8312
State Dept. guide to key officers of Foreign Service posts, 3104
Business names, registration of trade names, etc., require in D.C., report, 8732
Businessmen, *see* Business men.
Busse, Jon R.:
Aerobee 150 structural and aerodynamic pitch coupling, 17910
Aerobee sounding rocket launchings, 4983
Butadiene, plastic drain, waste, and vent pipe and fittings, standard of trade, 1290
Butcher, Bruce A., calcium determination in serum, etc., in weightless state, 6810
Butler, C. O., long travel shock mounts, 5378
Butler, E., floods of Great Basin, 7489
Butler, G. G., milk production, disposition, and income, 9742
Butte County, Calif., forest fire prevention knowledge and attitudes of residents, 8976
Butterflies, pine, defoliation effect on ponderosa pine in southern Idaho, 16325
Buttermore, Paul M.:
petroleum refineries in United States and Puerto Rico, 12237
water use in petroleum and natural gas industries, 6289

Buttons, tariff treatment, reports, 16130, 17332
Butyl methacrylate, photolysis of poly(n-butyl methacrylate) in vacuum, 6550
Butylpyrroles, *see* Pyrroles.
Butylthiophenes, mass spectra and correlations, 7710
Buying, *see* Purchasing.
Buzbee, William A., relief, 8526
Byers, Harry E., relief, 15813
Bypass rod transfers heat developed in thermionic diode, 13739
Byproducts, *see* Waste products.
Byrgius, LAC 92, lunar chart, 8195
Byrnes, Myrtis L., fur facts and figures, survey of industry, 8318

C

C.A.B., *see* Civil Aeronautics Board.
C. & M.S., *see* Consumer and Marketing Service.
C.C.C., *see* Commodity Credit Corporation.
C. F. Braun & Company, *see* Braun, C. F., & Company.
C.F.S. series, 738–745, 2034–35, 2672, 2724, 2976–77, 2980, 3008, 3022, 3029, 3171, 3174, 3185–86, 3194, 3205, 3260, 3267, 3276, 3480, 3516, 3522, 3575, 3683, 4399–4401, 5961–62, 7430–32, 8934–38, 10518–522, 13334–341, 16294–296, 17672–673
C.R.R.E.L., *see* Cold Regions Research and Engineering Laboratory.
CAB, *see* Civil Aeronautics Board.
Cabbage caterpillars, chemical compounds for control, field evaluation, 14100
Cabeza Prieta Game Range, birds, 7437
Cable, Louella E., plankton, 14653
Cable loops, protection, compact retractor, 4855
Cables:
  Federal item identification guides for supply cataloging, supplements, 2934
  length determinations for deep-sea oceanographic operations, 14314
  static and dynamic loads, strain gage mechanism for measuring, 9458
  thermistor, used in geothermal investigations, preparation, 9009
  see also Connectors (electric)—Electric cables—Submarine cables—Telephone cables.
Cacao, foreign agriculture circulars, 2987
Cactus Drilling Corp., oil and gas lease, reinstate, 17089
Cadam, bagged and barerooted, survival and growth, 16326
Cadets, *see* Air Force Academy, Colo.—Coast Guard—Coast Guard Academy, New London.
Cadmium:
  mineral industry survey, quarterly, 2722
  minerals yearbook chapter, 13674
Cadmium sulfide:
  films, high photovoltages in, 9534
  solar cells, effect of moisture on, 17924
  solar cells, thermal cycling, 16657
Cages, portable field, for mass culturing aphid parasites, 9774
Cagle, Caroline H.:
  changes in time and savings deposits, Dec. 1965–May 1966, 17660
  time and savings deposits, 10514
Les cahiers d'outre-mer, revue of geographie (periodical):
  articles, translations, 9107
Cahill, J. A., containment of liquid zirconium and niobium carbides on graphite between 3500° and 4700° K, 16614
Calcium:
  and calcium compounds, minerals yearbook chapter, 13675
Calcium—Continued
  biologic analysis, improved flame spectrophotometer, 5336
  determination in serum, parotid fluid and urine in weightless state, 6810
Calcium aluminoferrites, hydrates, properties, 11088
Calcium fluoride, eutectic for self-lubricating composites of porous nickel, etc., 12357
Calcium sulfate:
  precipitation, investigations, 10673
  solubility in sea water concentrates at temperatures from ambient to 65 C., 10676
Calculating machines:
  computing machines, census of manufacturers, industry report, 5450
  current industrial reports, 5483
  electronic calculator EV 80–3m, USSR study, 12178
  simple circuit performs binary addition and subtraction, 1230
  see also Electronic computers.
Calculations, *see* Numerical calculations.
Calculators:
  disk, indicates legible lettering size for slide projection, 1215
  veterans benefits, print additional copies, reports, 10196, 17468
  see also Denair performance computers.
Calculus:
  propositional, machine search algorithm for derivation, USSR study, 14856
  variations, discontinuous state variables, 11071
Calculus of variations, *see* Functional analysis.
Caldor, Selina:
  market indicators for—
    Africa, 15645
    Europe, 4010
Calendar of events in Library of Congress (periodical), 2723
Calendars, Air Force libraries, buying calendar for annual publications, 3778
Calendars (of business), *see* Court of Claims—House of Representatives.
Caletena, Felicidad, relief, 1889
Calf, *see* Calves.
Calfee, Robert F., carbon dioxide spectral line positions and intensities calculated for 2.05 and 2.7 micron regions, 9555
Calibrated clamp facilities pressure application, 6385
Calibration:
  accuracy in electrical and radio measurements and calibrations, 1298
  cardiotachometers and biologic data recordings, economical time standard, 8210
  conical pressure probes, 1257
  freon provides heat transfer for solid CO_2 calibration standard, 12299
  gravity model for any size urban area, 5128
  instruments, for determination of carbon below 50 parts per million in metals, calibrate by use of carbon dioxide, 7868
  Langley hotshot tunnel for Mach numbers from 12 to 26, 6446
  mass measurement philosophy of pilot program, 11097
  optical, analysis of U.S. naval space surveillance system, 16761
  pressure switches, flexible arms provide constant force, 13752
  rotating piston deadweight gage by means of mercury column, 15025
  volume-ratio, system for vacuum gages, 1266
  volumetric system calibrates meters for large flow rates, 1204
Calibrators, earth's field static, for accelerometers, 5011

California:
air transport of strawberries, factors affecting market quality, 1965 summer shipments, 12609
Arizona boundary compact, consent of Congress—
law, 15714
report, 13125
asphalt-consuming industries, use of mineral fillers, granules, and roofing rock, 13683
census of business, 1963—
retail trade, area statistics, 9946
wholesale trade, area statistics, errata, 3883
census of manufactures, 1963, area statistics, 16993
central, late Pleistocene marine paleoecology and zoogeography, 16361
climate, 13299
climatological data, 2751
coast pilot supplement, 5534
Coast Ranges, San Rafael primitive area, mineral resources, 10635
conifer regeneration in relation to environment, 8975
cotton basket-storage systems, 1964, cost, 50
county business patterns, 1714
errata, 5460
desalting plant, construction, report, 16145
earthquake history, 6982
eastern, frost injury to bitterbrush, 4449
electric rate book, 10480
Elsinore-Murrieta-Anza Soil Conservation District, horses on irrigated pasture (colored poster), 9664
five-spined ips, 14696
floods of Jan.–Feb. 1963, 10651
Indians, general information, 16368
Indians judgment funds, disposition, hearings, 14427
landings, fish and shellfish, 2724
life tables, 18012
manufacturing plants, location by county, industry and employment size, 1963 census, 16997
marine amphipoda of family Amphithoidae, 5042
mineral industry, minerals yearbook chapter, 2322
natural resources, 7509
northeastern, dwarfmistletoe removal and reinvasion in Jeffrey and ponderosa pine, 2067
northern, sagebrush defoliator outbreak, 2069
northwestern, blacktail deer and Roosevelt elk, bibliography, 10616
postal map, northern section, 13927
postal map, southern section, 13928
precipitation data, hourly, 3045
property conveyed to, remove restriction law, 11587
rice stocks and movement report, 2725
Salton Sea area, hydrologic regimen, 16360
southern—
atmospheric transport and dispersion, 5229
emergency revegetation to rehabilitate burned watersheds, 10605
motorists' knowledge of "no smoking" ordinance, 2066
signing for "no smoking" ordinance, 2065
survey of boundary between Arizona and California, 3994
timber—
harvest, 10612
top utilization, 10575
types, aerial photo stand-volume tables, 10580
women—
equal pay, 1965 laws, 5236
labor laws, summary, 5244
Calking, building construction materials and practices, Army technical manual, 3832
Call, David L., private label products in food retailing, 15218
Callaghan, J. G., simulation of sonic boom by ballistic models, 17876
Callahan, J. T., water in Georgia, 827
Callan, C. Richard, accident prevention, bibliography, 11377
Callas, George P., manual abort guidance from midcourse region of lunar mission, 11051
Callipteridеae, *see* Tinsleya.
Callis, Linwood B.:
analysis of supersonic flow phenomena in conical nozzles by method of characteristics, 15164
effect of expansion-tube performance of area changes at primary and secondary diaphragm stations, 6459
equilibrium normal shock and stagnation point solutions for arbitrary gas mixtures, 4957
Calmettes [Professor], study of depth of anterior chamber, physiological variations with particular emphasis on amentrophia, 5328
Calloway, Anthony A., relief, 10110, 14344, 16040
Calorigenic response of warm- and cold-adapted rabbits to intravenous infusion of epinephrine, etc., 9858
Calorimeters:
accurately measures thermal radiation energy, 6384
diphenyl ether, use in determining heat of fusion of iron, 6315
Calumet River:
pollution of interstate waters, conference—
proceedings, 7493
technical session, 11961–962
Calves:
beef, creep feeding, in Florida, effects on weight and market grade, 3767
calf crop, 6656, 14034
Camber (aircraft):
wing having inboard sections for Mach 1.2, investigation at Mach numbers 0.40 to 1.00, 11054
Cambodian language, Foreign Service Institute basic course, 14029
Cambrian period, *see* Trilobites.
Cambridge, Mass., explosion and fire, Experimental Hall, electron accelerator accident, July 5, 1965, investigation, report, 6865
Camden County, N.J., soil survey report, 11233
Cameras:
beam splitter used in dual filming technique, 6398
new television camera eliminates vidicon tube, 10986
satellite cameras, development, etc., East Germany, 1033
television, use of junction connectors for strategic placement, 15121
TV, circular, explosion-proof lamp provides uniform illumination, 9468
Cameron, A.G.W., early history of sun, 14017
Cameroon:
background notes, 8039
mineral industry, minerals yearbook chapter, 9362
Camouflage, techniques, Soviet survey, 13495
Camp, P. R., conductivity changes produced in ice by optical irradiation, 15505
Camp, Thomas H., cost and practices of selected cooperatives in operating bulk-feed trucks, 4351
Campaign expenditures:
Presidential election fund act, report, 17521
report, revise laws, report, 16093

Campaign Expenditures, 1966, Special Committee to Investigate, House, appoint, report, 12994
Campaigns (political), *see* Elections.
Campbell, Arthur A.:
natality statistics, analysis, United States, 9634
white-nonwhite differences in family planning in U.S., 9029
Campbell, F. B., hydraulic design of rock riprap, 10439
Campbell, J. Perry, megawatt direct-current arc heating of nitrogen, 9536
Campbell, James F., flow field survey, etc., in wake of X–15, 6450
Campbell, John D., costs of using cotton basket-storage systems, California and Texas, 50
Campbell, Lloyd N., relief, 12902
Campbell, M. E., solid lubricants, 16621
Campbell, Robert W., gypsy moth egg-mass density and subsequent defoliation, 8959
Campgrounds, *see* Camps.
Camping:
facilities in areas administered by National Park Service, 12398
facilities of national forests and grasslands, 8153
outdoors calling you? Government publications, list, 12456
Camps:
campgrounds success, studied as guide to recreation planners, 10568
logging, census of manufactures, 1963, industry report, 6897
private campground users, 8968
summer, year round use in training dropouts, 16236
see also names of camps.
'Can-venient' ways with shrimp, 13345
Canada:
air transport services, agreement, 12528
automotive products, tariff elimination, agreement, report, 490
background notes, 18107
chronic health care, comparison with American, etc., methodology, 11684
Columbia River basin treaty, Permanent Engineering Board, administration and procedures, agreement, 2584
continental air defense, establishment of back-up interceptor control system (BUIC), agreement, 9725
eastern, aerial surveys of waterfowl, 10539
economic relations with United States (remarks), 12790
egg production tests, 1965 report, 3731
Great Lakes fisheries convention, amending, 15999
labor offices, directory, 7651
light list and other marine aids, Great Lakes, 8405
loan of vessels, extension, agreement, 15354
manpower policy seminars—
reports, 4230
study papers, 4230
market profiles, 12782
meat and livestock industry, 10551
mineral industry, minerals yearbook chapter, 7689
northern, ground-to-air communications facilities, agreement, 9727
renegotiation of schedule 20 of GATT, agreement, 6644, 7067
sewage disposal system, agreement, 15372
social science research studies, current list, 11248
soils, aggregate stability, measurement procedure, correlations with soil constituents, 11369
steel jacks, determination of likelihood of injury, 15386
trade cooperation with United States (address), 335
Canada—Continued
winter maintenance of Haines Road, agreement, 5173
Canada-United States Interparliamentary Group, 9th meeting, House delegation report, 17326
Canadian border to Eureka, Calif., coastal warning facilities chart, 11314
Canal Zone:
lexicon of geologic names, 9008
map, United States, inset, 13651
announcement and order form 17999
mineral industry, minerals yearbook chapter, 17845
Canal Zone Government, annual report, 6882
Canals:
sea level canal site, joint explorations and surveys, agreement, 12534
sea-level, construction across American Isthmus by nuclear methods, 152–157
Cancer:
biology of malignant growth, USSR study, 4655
breast, 11185
carcinogenesis abstracts (periodical), 2729
cells, stomach, cytological examinations, signs of atypicality, USSR study, 9148
chemotherapy reports (periodical), 2726
colon and rectum, 7995
community health planning grants, 14757
epidemiological study, 7931
monographs, reviews, symposia, and survey articles with emphasis on human neoplasm guide and bibliography, 13960
mouth, 13968
oral, control, 18065
oral, head and neck, guidelines on professional education projects, 5105
Public Health Service programs, 4531
pulmonary, analysis of bronchoscopic symptoms with digital electronic computer, USSR study, 12132
research, International Symposium on Genes and Chromosomes, Structure and Functions, 5030
science and cancer, teaching guide, 7932
story, brief look at science and cancer, 6481
uterine, questions and answers, 2536, 12482
Cancer Institute, *see* National Cancer Institute.
Cancer, International Agency for Research on, *see* International Agency for Research on Cancer.
Candy, *see* Confectionery.
Cane sugar, *see* Sugar.
Canker (disease of plants):
Scleroderris canker on national forests in upper Michigan and northern Wisconsin, 13370
strumella canker of oaks, description, control, etc., 16322
Cannaday Francis X., piezoelectric pulsing equipment for sonic velocity measurements in rock samples, etc., 13694
Canned foods:
census of manufactures, 1963, industry statistics, 6889
report (periodical), 2727
see also names or classes of foods canned.
Cannelton Locks and Dam:
Ohio River, filling and emptying system, main lock, etc., hydraulic model investigation, 7336
spillway, hydraulic model investigation, 5889
Canneries:
firms canning, list—
food for animals, from marine-animal products, 778
sardines, Maine, 777
Canning and preserving, home canning of meat and poultry, 6748
Cannon, Thomas F., nursery business, 12502
Cannon, field artillery, gunnery, Army field manual, 6834

Cans:
metal—
census of manufactures, 1963, industry report, 5447
commodity transportation survey, shipper series, 218
current industrial reports, 2817
Cantilever beams, *see* Beams.
Canton, Ohio:
area wage survey, metropolitan area, 13596
commodity transportation survey, production area series, 8344
Cantrell, George K.:
factors in job-satisfaction, 14191
analysis of spontaneous comments, 14192
Cantwell, John A., basic data on economy of Austria, 11515
Canyon de Chelly National Monument, excavations at Tse-Ta'a, 13875
Cap, Ferdinand, solution of ordinary differential equations by means of Lie series, 16592
Capacitance, shunt, effects on transient effects caused by electron irradiation of polyethylene terephthalate insulated ribbon wire, 7849
Capacitors:
aluminum electrolytic fixed, storage shelf life and reforming procedures, 7266
capacitive system detects and locates fluid leaks, 6409
large capacitor performs as distributed parameter pulse line, 13731
parallel plate capacitor containing toroid-shaped sample, calculation of admittance, 13867
three-dimensional wire-mesh capacitor system measures fluid density, 4874
Cape, *see* name of cape except when occurring as first word of town, etc.
Cape Canaveral, biological-statisical census of species entering fisheries in area, 779
Cape Cod National Seashore:
dedication (remarks), 10668
general information, 6502
Cape Cod to Sandy Hook, coast pilot, supplement, 5531
Cape Fear River, lock and dam No. 3, designate as William O. Huske Lock and Dam, report, 1922
Cape Hatteras, N.C., to Brunswick, Ga., coastal warning facilities chart, 12559
Cape Henry to Key West, coast pilot, supplement, 5533
Cape Lookout National Seashore:
establish—
law, 7030
reports, 4112, 5660
Cape Mountain, tin-lode investigations of area, Seward Peninsula, Alaska, 6323
Cape Spencer to Beaufort Sea, coast pilot, supplement, 6986
Capella, AIC 79A, lunar chart, 14182
Capellen, J., bibliography of mass spectroscopy, compiled by computer method, 15533
Capillaries:
development during exposure to chronic hypoxia, 9865
dynamics, and existence of plasma flow in pericapillary lymph space, 15146
laminar dispersion, and counterflow transport, 851
wave damping at air/water interface, 6549
Capital:
Alaska RR., major expenditures, budget presentation, GAO report, 10618
balance of payments programs and private capital (remarks), 8103
European capital markets, etc., investigation, authorization, report, 17297
per-unit capital retains, tax treatment by cooperatives and patrons, 4352
Capital—Continued
stock requirements of companies doing business in D.C., amend act—
law, 8475
report, 8733
see also Investments.
Capital of United States:
airports, Federal aviation regulations, 5922, 8887
Gallaudet College, model secondary school for deaf to serve region, establishment, etc.—
hearings, 15966, 16194
reports, 17273, 17526
National Park Service, 1966 activities, 7941
outdoor recreation in region, 1303
places of historic information, factual information, 17404
regional development guide, 1966–2000, National Capital area, 15213
transportation facilities, planning for region, authorize D.C. participation, hearings, 1936
Washington Channel bridge, construction maintenance, and operation, with visitor facilities, hearing, 17598
welcome to Washington, 15224
your Washington, pocket guide, 11132
see also District of Columbia.
Capital stock tax, State taxation of interstate commerce, report, print additional copies, reports, 10187, 14461
Capitalism:
changes in structure of capitalist ownership, USSR study, 6168
two world systems and their development tendencies, USSR study, 2248
Capitol:
architecture and planning, hearings, 17371
colored poster, 14058
with German text, 14059
with Portuguese text, 14060
with Spanish text, 14061
factual information, 17404
grounds, long-range land use plan, formulate, etc., report, 16148
our Capitol, print as Senate document, reports, 13003, 16075
police, employ additional personnel, report, 12926
west front, extension, etc., provide for visitors' center, hearing, 13056
works of art and other objects, compilation, 5597
Capitol, Commission on Architecture and Planning, establish, hearings, 17371
Capitol Reef National Monument, general information, 1328
Cappadona, Sarah A., relief, 7076, 11542, 11727
Capper-Volstead act, *see* Agricultural products.
Capps, Hahn W., review of genus Haimbachia Dyar with descriptions of new species (Lepidoptera, Crambidae), 2468
Capture cross sections, *see* Neutron capture cross sections.
Carbamic acid, esters, insecticidal, USSR study, 971
Carbides:
chemical reactions and bonding in these compounds, 13836
graphite-metal carbide composites, 12267
see also Hafnium carbide—Niobium carbide—Tantalum carbide—Zirconium carbide.
Carbohydrates:
carbon-14 and tritium labeled, progress report of Organic Chemistry Section, July 1965–June 1966, 17944
radioactive progress report of Organic Chemistry Section, July 1964–June 1965, 1299

Carbon:
carbon-14 measurements in atmosphere, 5392
carbon reduction of chromite, 9377
compounds, chemistry, classification bulletin, 9304
content of tantalum carbide, Hall coefficient as function, 2421
deposition for thermal recovery of petroleum, statistical approach to research, 7715
determination of below 50 parts per million in metals, calibrate instruments by use of carbon dioxide, 7868
electrodes, electrochemical dimineralization of water, 10674
electrodes, improved, reduces arc sputtering, 4863
evaporation of Ta-Hf-C system, computational methods for calculation of rates, 9429
liquid uranium, metal, and carbon systems, vaporization, 15076
submicron powder, charging for colloidal particle thrustors, 16703
Carbon black:
mineral industry survey—
annual, 10909
monthly, 2728
minerals yearbook chapter, 13676
Carbon dioxide:
desorption from sea water, 12048
freon provides heat transfer for solid CO_2 calibration standard, 12299
interaction with hydrogen chemisorbed on platinum electrode, 16764
laminar boundary layers, application of Eckert reference formulation, 7740
mixtures with nitrogen for conditions typical of Mars entry, estimate of chemical kinetics, 6451
nitrogen and hydrogen mixture properties, 6337
spectral line positions and intensities calculated for 2.05 and 2.7 micron regions, 9555
tests strips detect different concentrations in closed compartments, 4883
use to calibrate instruments for determination of carbon below 50 parts per million in metals, 7868
use of silver oxide as regenerative carbon dioxide sorber, 10962
vapor pressure at ice point, 10928
Carbon films:
TFE-fluorocarbon (polytetrofluoroethylene) resin sintered thin coatings for dry film lubrication, standard of trade, 13857
thin, serve as UV bandpass filter, 6386
Carbon isotopes, International Conference on Radiocarbon and Tritium Dating, proceedings, 11422
Carbon monoxide:
band spectrum, 13859
mechanism for reduction of iron oxides, adsorption phenomena, 16577
oxygen reaction, ignition kinetics, 16706
poisoning, USSR clinical study, 7628
Carbon steel, *see* Steel.
Carbon tetrachloride, mechanism of toxic effect of carbon tetrachloride and its homologs, USSR review, 7636
Carbonates, *see* Barium carbonates—Lead carbonates—Strontium carbonates.
Carbonization:
coal fluidized, light oils, analysis, 6312
continuous method, influence on pyrolysis products from subbituminous coal, 16583
Carcinogenesis, *see* Cancer.
Card, Michael F.:
buckling of eccentrically stiffened cylinders, 16694
experiments to determine elastic moduli for filament-wound cylinders, 1273
experiments to determine strength of filament-wound cylinders loaded in axial compression, 13829
Carden, Huey D., longitudinal vibration of simplified Thor vehicle structure, 17916
Carder, Dean S., earthquake investigations, western United States, 3993
Cardiac activity, *see* Heart.
Cardiac contractility, *see* Heart.
Cardiac diseases, *see* Heart diseases.
Cardiac output, *see* Blood.
Cardiography, phase analysis of cardiac activity, USSR study, 14953
see also Vectorcardiography.
Cardiology:
aortic blood velocity computed from pressure pulse, 15495
electromechanical, synthetic, Soviet book excerpts, 10823
training program, heart disease in children, workshop proceedings, 6582
Cardiotachometers and biologic data recordings calibrating, economical time standard, 8210
Cardiovascular system:
cardiovascular responses to exercise following myocardial infarction, problems in aeromedical certification, 16982
climate and cardiovascular pathology, USSR study, 4622
comparative, veterinary, and primate cardiovascular research, 5026
effects of 1,1-dimethylhydrazine in anesthetized dog, 96
lower body, negative pressure, effects, 12629
manned space flight, influence on cardiovascular function, 14196
monitoring, NASA contributions, 15084
physical exercise effects during 4 weeks of bed rest on circulatory functions in man, 8204
physiology and pathology, USSR 1964 scientific research, 6119
reactivity, USSR study, 4590
responses of diving and nondiving mammals to apnea, 8214
Cards, *see* Catalog cards—Training cards.
Career planning for Army officers, 1647
Careers, *see* Civil service—Government officials and employees—Occupations.
Cargo, *see* Shipping.
Cargo carriers, U.S. certificated, domestic, international and overseas routes, map, 3962
Cargo handling:
automated delivery systems in Army aircraft, cost, etc., evaluation, 14233
rigging cargo gear, 14965
Cargo services, *see* Air carriers.
Caribbean area:
climatological data, 2751
Communist threat to U.S., hearings, 580, 587, 1948, 8784
health information for travel, 11184
islands, mineral industry, minerals yearbook chapter, 9363
pocket guide, 15503
weather records, 1951–60, 17638
Caribbean forester (periodical), 2730
Caribou, projected values of cesium-137 body burdens in Anaktuvuk Pass Eskimos for summer 1965, based on findings in caribou muscle, 5115
Caridad Ares y Fernandez de Bosch, Myriam, *see* Bosch, Myriam.
Caries, *see* Teeth.
Carillons:
duty-free entry for—
Northfield and Mount Hermon Schools, 17188
University of California, 17192
Carlin, Ernest J., relief, 386
Carload waybill statistics, *see* Railroads.
Carloading, packing and carloading, instructor's guide, Army Dept. pamphlet, 6842
Carlsbad Caverns National Park, general information, 11123

Carlson, David R., supersonic/hypersonic aerodynamic investigation of Saturn IB/Apollo upper stage, 4819
Carlson, Elmer T., calcium aluminoferrite hydrates, 11088
Carlson, Harry W., body shape effect on sonic-boom pressure distributions, 1270
Carlson, R. L., buckling of complete spherical shells, 15057
Carlson, Tony C., market for wood pallets in steel industry, 17702
Carlson stress meter, improved, supplementary tests, 14576
Carnations, production and sales, etc., 8089
Carnegie, Andrew, papers in Library of Congress, register, 7680
Carney, Charles B., Pinehurst-Southern Pines, N.C., 5899
Carnivores, certified products for carnivora, regulations governing, 1954
Carp:
  Aral Sea, pelecus cultratus (L.), ecologomorphological characteristics of early stages, USSR study, 13573
  in Lewis and Clark Lake, Missouri River, 17676
Carpenter, Anita A., captioned films for deaf, 635
Carpenter, E. M.:
  balsam fir dimension lumber in selected Minnesota markets, 5995
  forest-product imports and exports via Great Lakes-St. Lawrence Seaway through upper lakes ports, 14706
Carpenter, John A., evaluation of 2 percent gold visor, 14195
Carpenter, Lloyd:
  computation of general planetary perturbations, expansion of disturbing force, 6412
  planetary perturbations in Chebyshev series, 4922
Carpenter, Stanley B., survival and 5-year growth in unit 4, Waiakea Arboretum, Hawaii, 10576
Carpenters:
  employment outlook, 9218
  supervisor, examination announcement, 9993
Carpet beetles, *see* Beetles.
Carpets, Wilton, Brussels, etc., Tariff Commission report, 15388
Carpio, Arturo V. Farjardo-, *see* Farjardo-Carpio, Arturo V.
Carpsuckers, river, in Lewis and Clark Lake, Missouri River, 17676
Carr, Frank A.:
  flight report, interplanetary monitoring platform—
    IMP–I–Explorer XVIII, 7870
    IMP–II (Explorer XXI), 11048
Carreras, Bienvenido Benach, *see* Benach Carreras, Bienvenido.
Carriers:
  common carrier services, applications, FCC, 2916
  common, property, tax assessments, hearings, 7153
  interstate, water supplies, by States and Public Health Service regions, inventory, 15285
  schedule of annual indices by railroad, 10698
  revised pages, 17748
  see also Air carriers—Communications—Motor carriers—Pipe lines—Telegraph—Telephone—Water carriers.
Carrigan, Anne L., geophysics and space data bulletin, 3021
Carriker, M. A., jr., revision of genus Furnaricola, 6498
Carroll, Douglas F., foreign trade regulations of Ethiopia, 8432
Carrots:
  dehydrated, explosion-puffed dice of high density, 12
  market diseases, 16920
Cars, *see* Freight cars—Passenger cars—Railroad cars.
Carson, Concetta C., relief, 17174
Carson, W. N., use of auxiliary electrodes in silver cells, 6348
Carter, Albert, relief, 17431
Carter, Florence, labor law and practice in Tunisia, 4714
Carter, Horace S., Warm Springs, Ga., 5898
Carter, J. R., effects of low energy protons and high energy electrons on silicon, 6347
Carter, Mary E., arthritis and rheumatic diseases abstracts, 2693
Carter, Melvin W., off-site surveillance, 6868
Carter, Phyllis G., 1960 censuses of population and housing, 11460
Carter, William D., geology and uranium-vanadium deposits of La Sal quadrangle, San Juan County, Utah, and Montrose County, Colo., 7486
Carter County, Okla., thermal recovery and 2 waterflood projects, 16560
Cartesian coordinates, *see* Coordinates.
Cartographers:
  examination announcement, 14298
  trainee, examination announcement, 298
Cartography, *see* Maps and charts.
Cartons, automatic pickup in packaging and labeling, 6710
Caruso, Anthony J., absolute photon yields of light elements by deuteron bombardment, 16699
Carver, John A., remarks, May 9, 1966, 10671
Casaday, W. M., reaction wheel with brushless DC motor drive, 7724
Casady, R. B., commercial rabbit raising, 12594
Cascio, Guiseppe Rubino-, *see* Rubino, Guiseppe.
Case, J. E., gravity survey and regional geology of Prince William Sound epicentral region, Alaska, 13412
Case Institute of Technology:
  rheogoniometer, duty-free treatment, reports, 16130, 17332
  Weissenberg rheogoniometer, duty-free entry, 17185
Case Load Management Committee, Institute on, Rehabilitation Services, report, 2622
Caseload statistics of State vocational rehabilitation agencies in fiscal year 1965 and trends since fiscal year 1961, 1528
Cases, *see* Brief cases.
Caseworkers, *see* Social workers.
Cashiers:
  employment outlook, 9220
  Government, regulation relating to cash held at personal risk, including imprest funds, department circular, 11299
Casner, Lewis E., computer use to improve command post exercises, 6536
Caspian depression:
  southeastern margin, structure, USSR study, 14806
  Triassic section in Aral-Sor superdeep well, USSR study, 4600
Cass, Millard, address, Nov. 19, 1965, 1076
Cassatt, Mary, 5-cent commemorative postage stamp (poster), 16782
Cassell, Frank H., address, July 7, 1966, 13289
Cassin, S., capillary development during exposure to chronic hypoxia, 9865
Cast iron:
  current industrial reports, 2817
  high-manganese pig iron, recovery of manganese from slag formed by selective oxidation, 6319
  prerefining pig iron with vortex cone, desiliconizing techniques, improvements, 1160
  see also names of manufactured articles.
Castaic, Calif., watershed, sediment yield, quantitative geomorphic approach, 2103
Casting molds, *see* Molds (forms).

Castings:
iron, current industrial reports, 2817
nonferrous, current industrial reports, 2817, 5482
nonmalleable iron, amend tariff schedules, report, 17337
selected techniques, 9449
steel, current industrial reports, 2817
Castnets constructed of machine-made netting, 2039
Castro, Juanita, testimony, hearing, 5710
Castro, Renato C., relief, 15825
Caswell, Randall S., single particle energy levels and wave functions in nuclear structure calculations, Fortran program, 16720
Catadioptrics, telescope with mirror-lens correction, USSR study, 9080
Catalano, John F., detection in homogeneous visual field under condition of infinite depth of focus, 2490
Catalase, microorganisms detected by enzyme-catalyzed reaction, 7774
Catalog cards:
Library of Congress—
books, authors, 3242
books, subjects, 3146
motion pictures and filmstrips, 3147
music and phonorecords, 12229, 16545
Cataloging:
Atomic Energy Commission—
descriptive cataloging guide, 5405, 16976
report number series used by Technical Information Division, 11433
cataloging handbook, H series, 601–602, 1960, 2966–68, 4242–43, 5843, 10383, 14514
cataloging manual M (series), 603–605, 4244
cooperation, etc., among information systems, literature review, 11091
notes for medical catalogers (periodical), 3277
service, bulletin, 2731
supply cataloging, Federal manual, operating procedures, 604
Catalogs:
All-Union Group Isotope, 1965, instruments using nuclear sources, etc., 11415
Armed Forces Institute, 3807
aviation medicine reports, 15553
captioned films for the deaf, catalog, 635
Census Bureau, 2713
census publications, monthly supplement, 2714
civil defense motion pictures, 17029
Civil Rights Commission publications, 14294
Civil War, books in Army Library, 5257
Coast and Geodetic Survey aeronautical charts and related publications, 6980
Coast Guard films, 6990
Commerce Department publications, 1964 supplement, 364
concert music by American composers, 1525
copyright entries, 595–598, 1956, 4238, 5838–39, 8793, 11838, 17602–604
DCSC procurement estimates, 10385
defense logistics management training catalog, change, 8796
emergency health preparedness publications, 11186
FDA fakes and swindles in health field, 7448
Federal aids to State and local governments, supplement, 10345
print additional copies, reports, 10212, 10293
Federal Aviation Agency Academy, 14598
Federal programs for individual and community improvement, 5860
films, 1966, Public Health Service, 15299
general stores stock catalog, 2031, 3018
price changes, hand tools, 2032
supplement, 13330
Catalogs—Continued
Government publications, monthly catalog, 3208
GSA stock catalog, 16290, 17668
Homoptera, 9792, 12587, 16917
Industrial College of Armed Forces—
1966–67, 16387
publications, 16388
investment information and opportunities—
index, 6076
index, southeast Asia supplement, 16383
industry profiles, supplement, 9052
Joint Publications Research Service current translations, 13447
Labor Statistics Bureau publications, 9337, 16538
Library of Congress—
books, subjects, 3146
motion pictures and filmstrips, 3147
music and phonorecords, 12229, 16545
National Exhibition of Prints, 9343
national register of microform masters, 2307, 9345
national union catalog, 3242
register of additional locations, 2308, 9346, 14986
subject headings, 17825
monthly supplement, 3546
medical and veterinary zoology, 5274, 8133, 16918
meteorological satellite data, television cloud photography—
ESSA 1, 14580
TIROS VII, 1535, 8867
TIROS VIII, 5900, 14579
TIROS IX, 11902
Military Academy, Preparatory School, Fort Belvoir, Va., 3828
Military Academy, West Point, 1966–67, 17831
National Bureau of Standards, standard materials, quarterly insert sheets, 11090
National Library of Medicine, biweekly listing, 5038
Navy film catalog, 11159
parasite subject catalogue, 5274, 8133, 16918
popular names of U.S. Government reports, 16546
radar-positioned constant-volume balloon (tetroon) flights, 16901
selected documents on the disadvantaged, 16226–27
star catalogs, 9646
stores stock catalog, hand tools, 4398
supplements, 7425, 11956, 14646
stream catalog of southeastern Alaska—
regulatory districts 5, 6, 7, and 8, 2047
regulatory district 9, 4426
United States nautical chart catalog—
Atlantic and Gulf Coasts, Puerto Rico and Virgin Islands, 6988
Pacific Coast, Hawaii, Guam and Samoa Islands, 6989
USSR radio industry products, analog computation equipment, 16502
whales, living species, 7938
Catalysis:
combustion of hydrocarbons, ionization produced, 9596
hydrogen-atom recombination in rocket nozzles, 6341
surface activity, effect of discontinuities on laminar heat transfer, 15198
Catasus, Antonio U., relief, 17445
Catawba, S. C., railroad accident, 12082
Caterers and catering:
bibliography, 1459
food to be served on buses, sanitation standards, handbook, 16794
Caterini, Dino J., relief, 15814
Caterpillars, *see* names of caterpillars.
Catfish, parasites, 14652

Cathcart, James B., economic geology of Fort Meade quadrangle, Polk and Hardee Counties, Fla., 12011
Cathey, Henry M., growing flowering perennials, 14138
Cathode ray tubes:
  displays, apparent movement phenomena, 2363
  use for color displays in combat information centers, 6552
Cathode rays, technology, development trends, East Germany translation, 12160
Cathodes:
  heated-cathode discharge tube, directed beam of high-speed electrons through mercury vapors, 4990
  rod and dish cathode improves Penning-type vacuum gauge, 6406
Catholic University of America, Weissenberg rheogoniometer, duty-free entry, 389, 542
Catholicism, present-day social doctrine vis-a-vis working class, USSR, 16509
Cats:
  certified products for, regulations governing, 1954
  effects of congential cerebellar hypoplasia on developmental behavior and vestibular system, 12628
  scotic response, 12645
  used for research, etc., regulate transportation, sale, and handling—
    hearings, 7108, 13200
    law, 15726
    reports, 8604, 8611, 11775, 13008
Cattle:
  acetylcholinesterase from erythrocytes, isolation, purification, etc., USSR study, 2241
  anaplasmosis, control, 16926
  beef—
    improvement, handbook for county agents, 5285
    production, effects of stocking rates in northern Great Plains, 3772
    production, use chemicals safely, 9831
  dairy—
    DHIA sire summary list—
      Ayrshire, Guernsey, Holstein, Jersey, Brown, Swiss, Milking Shorthorn, and Red Dane sires, 12581
      Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, and Red Poll Sires, 11, 6713
      Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, Mixed Breed, and Red Poll sires, 6714
    interstate movement, 1965, selected States, 9740
    recent developments in nutrition, 9779
  dipping vat & inspection facility, building plan, 15456
  economies of size for specialized beef feedlots in Colorado, 10411
  fed, 1962–64, marketed, number, 15383
  growth and reproduction, influence of environment, 5268
  hide exports, hearing, 11637
  hides, export controls (remarks), 8429
  horn flies, how to control, 1587
  market, testing program—
    brucellosis eradication activities, 3556
    brucellosis, what you should know, 6762
  on feed, 2732
  packer feeding, volume and significance, 16930
  raising a few for beef, 12605
  scabies eradication activities, 3725
  slash cleanup in ponderosa pine forest affects use by, 13366
  sold for slaughter, selected markets, 2732
  stocker and feeder, shipments, 3515
  Texas longhorns, conservation note, 10530
Cattle—Continued
  use of ponderosa pine forest in Arizona, 13365
  use of spruce-fir forests of Arizona, 13368
  see also Livestock.
Cattle ranches, *see* Ranches.
Cattle ranges, *see* Range lands.
Caucasus, Greater, water resources of administrative regions, estimate, 14892
CAUSE [Counselor-Advisor University Summer Education] II prepares 2000 to counsel Youth, 662
Cauthen, Lewis J., jr.:
  Isthmian Canal, studies, 1964, safety evaluation for air blast, ground shock, throwout, and dust, 155
  strong motion seismic measurements, Project Pre-Schooner, 1681
Cavallaro, Joseph A., reclaiming magnetite in dense-medium circuits by froth flotation, 13697
Cavalry (armored), *see* Armored force.
Cavanaugh, Joseph A., professional mental health personnel employed in States, 11105
Caves, decoupled nuclear explosion, cavity pressure and temperature measurements, feasibility Project Dribble, Salmon event, 3852
Cavin, James P., talk, Nov. 15, 1965, 4288
Cavitation:
  accelerated, damage of steels and superalloys in liquid metals, 9539
  effects on magnitude of intermittent forces transferred to ship's hull by screw propeller as it operates, USSR study, 2216
  fluid flow, effects of pipe bends, 11021
  liquid, in circular pipe bends, studies, 4925
  screw propeller, determining moment it sets in, USSR study, 2214
  similarity considerations based on measured pressure and temperature depressions in cavitated regions of freon 114, 13824
  subsurface, source of noise in ocean, USSR study, 13559
Cavities, *see* Caves.
Cavity reactors, *see* Reactors (atomic).
Cavity resonators, *see* Resonators.
Cayuga Inlet, drop structure, hydraulic model investigation, 5888
CCC, *see* Commodity Credit Corporation.
CCR special publications, 6959, 11494
CD newspictures, 2734
Cecilia, Sister Mary, *see* Esquivel, Leonie.
Cedar:
  Atlantic white-cedar being eliminated by excessive animal damage in South Jersey, 789
  juniper eradication, effect on streamflow from Corduroy Creek basin, Ariz., 10643
  juniper woodlands on Cibecue Ridge, throughfall for summer thunderstorms, 6033
  moisture content of juniper, fluctuations, 13369
  pinyon-juniper sites in New Mexico, adaptability of forage species, 4452
  western redcedar, seasonal progress of radial growth, 4472
Celada, Raymond J., internal security and subversion, principal State laws and cases, study, 581
Celebes, sailing directions, change, 11145
Celentano, J. T., vibrocardiographic system study, 10969
Celery:
  hydrocooling stacked crates, 12582
  market diseases, 16920
Celestial bodies:
  photography, photogrammetry, and photo interpretation in space investigations, USSR study, 988
  spatial relations, by analog solar system model, 16636

Celestial mechanics, one-step integration methods, 16708
Celestial navigation, *see* Navigation.
Celestite:
  disposal from supplemental stockpile—
    hearings, 11643
    law, 11570
    reports, 10149, 11753
Cells:
  division endocrinological research, problems, USSR study, 7585
  electrochemical, improvement of zinc electrodes, 4832
  reconstruction of biologically active ribosomes from protein-deficient ribonucleoprotein particles and ribosomal protein, 10774
  see also Cytology—Epithelial cells.
Cells (electrolytic), *see* Electrolytic cells.
Cement:
  and dispersant additives, effect on hydraulic backfill, laboratory study, 16576
  duty treatment of limestone for cement, report, 17328
  expanding cements, investigation, 682
  industry, mergers & vertical integration, economic report, 11957
  interrelations between cement and concrete properties, sulfate expansion, heat of hydration, and autoclave expansion, 13855
  portland—
    blast-furnace slag, investigation, 681
    production, shipments, and stocks, monthly report, 2735
    subgrade stabilization under landing mat, 7333
  products, census of manufactures, 1963, industry report, 3897
Cement masons, employment outlook, 9219
Cemeteries, *see* National cemeteries.
Cenozoic era, China, general description, 13470
Census:
  agriculture, 1964, preliminary reports, 2736
  areas with approved census tracts, 1960, list, 5455
  business, 1963—
    area statistics, announcement and order form, 14248
    major retail centers, area statistics, 184, 1698
    merchandise lines sales, announcement and order form, 8323
    retail trade area statistics, 185–192, 3875–76, 5438, 6883, 9946–49
      advance, reports, 2737
    retail trade subject reports, 193–196, 8325
    selected services, area statistics, 197–198, 3877–80, 6884
      advance reports, 2737
    selected services, subject reports, BC–88 series, 200–203, 1699, 6885
    selected services, summary statistics, advance reports, 2738
    special report, 6886
    wholesale trade area statistics, 204–206, 3881–83
      advance reports, 2737
      bound volume, 15565
    wholesale trade subject reports, 207–208, 1700–1, 8326
  business, manufactures, and mineral industries, 1963, EC series, 223, 1707
  geography, 1970, cooperative effort (paper), 9966
  governments, 1962, final reports, 209–210
  head-counting techniques in premium demand, U.S. census know-how traverses world, 1740
  housing, 1970, self-enumeration as method, 12731
Census—Continued
  manufacturers, 1963—
    area statistics, 14250–253, 15567–573, 16992–995
    industry statistics, 1702–4, 3884–3906, 5439–51, 6887–6914, 8328–38, 11452–453
    preliminary reports, 2739
    special reports, 3907, 6915, 11454–456, 12698–701, 14254–260, 15574, 16996–997
  mineral industries, 1963—
    industry statistics, 6916, 9951, 11457–459, 12702, 14261–262, 15575–576
    preliminary reports, 2740
  1970 census—
    preparation (address), 5554
    questions, hearings, 15985
  population, 1960—
    final reports, 3939, 5501, 8371, 11479
    supplementary report, 211, 1705–6, 6917–18
  population, unemployment, and housing, mid-decade census in 1966, etc. report, 481
  seasonal adjustment program, X–11 variant of census method II, 271
  small-area data activities, 5500
  statistical briefs from around world (periodical), 3536
  tract manual, 5454–56
  tract memo, 2741
  tract papers GE–40 (series), 8348
  transportation, 1963—
    advance and/or preliminary reports, production area series, 6919, 8339–47, 9952–59
    final volumes, 3908, 16998
    preliminary reports, commodity transportation survey, shipper series, 212–222, 3909, 5452–53
    truck inventory and use survey, 3908
  see also subjects.
Census Bureau:
  catalog, 2713
    monthly supplement, 2714
  bulletin, 15564
  employees, claims incident to service in taking 1960 decennial census, Secretary of Commerce to settle, report, 12953
  press releases, 3347
  professional careers, 270
  publications on governments, recurrent reports scheduled, 14281
  regional directors, list, 5456
  schedule B, 3491
  schedules, 224, 3936, 5498–99, 6936
  Small-Area Data Advisory Committee, activities, 5500
  special censuses conducted, summaries, 3930, 6932, 8363, 11471–472, 12727, 17010
  statistical daily (test periodical), 183
  technical paper, 271
  working papers, 273, 12731
Census Tract Conference, papers presented, 8348
Centenarians, America's, social security beneficiaries who reach 100, 18099
Center for International Systems Research, occasional papers, 18114
Center for Settlement of Investment Disputes, *see* International Center for Settlement of Investment Disputes.
Center of gravity, *see* Center of mass.
Center of mass, centers of gravity of children, sitting and standing, 8307
Center-hole anchors, *see* Anchors.
Centerwall, Willard R., phenylketonuria, inherited metabolic disorder associated with mental retardation, 6941
Central African Republic:
  background notes, 6622
  mineral industry, minerals yearbook chapter, 9362

Central America:
beef export trade, 2054
health information for travel, 11184
weather records, 1951–60, 17638
Central American Common Market:
1963–64 foreign trade, 11521
observations, report, 15968
Central Arizona project:
authorize, construct, operate and maintain hearings, 519, 10247
print additional copies, reports, 499, 561
Central Dermatovenerology Scientific Research Institute, USSR, director, N. M. Turanov, activities in scientific field, 9185
Central Great Plains, *see* Great Plains.
Central Intelligence Agency:
act of 1949, amend, report, 12996
Director, nomination of Richard Helms, hearing, 11790
Central nervous system, *see* Nervous system.
Central of Georgia Ry., accidents, 2138, 12079, 12083
Central Radio Propagation Laboratory, *see* Telecommunication Sciences and Aeronomy Institute.
Central States:
census of business, 1963, merchandise line sale, retail trade, statistics, West North Central States, errata, 196
cost of transporting freight, 6086, 7538
East North Central region, standard metropolitan statistical areas, facts for marketers, 6877
East North, manufacturing plants, location by county, industry, and employment size, 1963 census, 14256
East South Central division, manufacturing plants, location by county, industry, and employment size, 1963 census, 14259
East South Central region, standard metropolitan statistical areas, facts for marketers, 6878
North—
principal electric facilities, map, 7376
rural nonfarm areas, consumer expenditures and income, 1961, supp., 2289
North Central region—
nonmetropolitan areas, employee earnings and hours, 17816
rural farm population consumer expenditures and income, 14117
urban and rural 1960–61, consumer expenditures and income, 7662, 10855
South, principal electric facilities, map, 7379
standard metropolitan statistical areas, facts for marketers, 9941
West North Central division, manufacturing plants, location by county, industry and employment size, 1963 census, 14257
West South Central region, standard metropolitan statistical areas, facts for marketers, 8316
West South, manufacturing plants, location by county, industry, and employment size, 1963 census, 16996
Central States Forest Experiment Station, publications, 1965–66 list, 11990
Central Valley project:
American River division, general information, 11208
Auburn-Folsom South unit, construct, etc., report, 17197
Trinity River division features, construction, 12495
Centrifugal device separates liquid from gas, 4887
Centrifuges:
neurologic adaptations in mice exposed to chronic 2x gravity field, 93
zonal and ancillary systems development for tissue fractionation and analysis, 15289
Century of change (remarks), 1397
Cerambycidae, *see* Beetles.
Ceramic engineers, employment outlook, 9236
Ceramics:
air-cured coating insulates against high heat fluxes, 1232
census of mineral industries, 1963, industry statistics, 12702
refractory, fibers produced by improved process, 9487
stannic oxide, electrical properties, 4831
structural materials, investigation, 17883
summaries of basic AEC research programs, 5403
Cereals, *see* Grain.
Cereals as foods, bread and cereals, golden nuggets, guide for program aides in home economics, 15458
Cerebellar hypoplasia, *see* Hypoplasia.
Cerebral vascular disease, *see* Blood vessels.
Cerebrovascular system, disorders, strokes, summary of progress, 5034, 18073
Ceres (asteroid):
trajectories, planetary flight handbook, 9445
Cerium, inhibitor of thermal degradation processes in polysiloxanes, 16759
Certificates, *see* types of certificates, or subjects involved.
Certificates of indebtedness, *see* Treasury certificates of indebtedness.
Certified air carriers, *see* Air carriers.
Certified public accountants, *see* Accountants.
Cesium:
adsorption on fluorinated molybdenum as erected dipole model, 4961
adsorption on insulators, 4810
atomic beam determination of cesium-cesium total scattering cross section, 2436
beam standard, use for comparison with hydrogen maser frequency, 7834
determination by flame photometry, 15023
high-temperature properties, 1358
multiple adsorbates, cesium with fluorine on molybdenum and tungsten, desorption kinetics, 15187
tetraborate charge material, bias determination of mass spectrometric isotopic anaylsis of boron using prepared standards and sodium, and cesium, 11427
Cesium chloride, volatilization from pollucite ore, 12247
Cesium isotopes:
Cs-137—
binding characteristics in Pangola hay and Spanish moss, 2522
dietary intakes and body burdens, 2523
facility for ecological research, development, 8293
gamma rays in sand, determination of differential energy and angle spectra, 11423
projected values of body burdens in Anaktuvuk Pass Eskimos for summer of 1965, based on findings in caribou muscle, 5115
Cestoda, index-catalog, 9793
Cestrone, Patrick F., teach them to lift, 4702
Cetacea, toothed cetaceans (odontoceti), structure of populations, USSR study, 14922
Ceylon:
agricultural commodities, agreement, 11273
investment guaranties, agreement, 15347
mineral industry, minerals yearbook chapter, 1118
Cha Mi Hi, relief, 1893
Chace, William G., factors affecting quality of grapefruit exported from Florida, 6758
Chad, mineral industry, minerals yearbook chapter, 9362
Chadwick, Donald R., paper, Oct. 19, 1965, 1435
Chagas' disease, *see* Trypanosomiosis.
Chains, Federal item identification guides for supply cataloging, supplements, 2934

239-221—67—No. 863——12

Chairs, rotary, straight, wood office, Federal standards, 17666
Chajet, George, indirect paired associates learning, 7972
Chalisov, Iosif A., celebrates birthday, 13550
Chalmette National Historical Park, general information, 15220
Chamberlain, E. B., aerial surveys of waterfowl in eastern Canada, problems, 10539
Chamberlayne, Earl C., relief, 16021
Chambers, Harriet C., relief, 11640, 11700, 14338
Chambers, John C., vapor compression distillation using secondary heat transfer media, 6063
Chambers, Joseph R.:
dynamic lateral stability and control of parawing vehicle, 12347
static and dynamic longitudinal stability derivatives of powered ¼-scale model of tilt-wing V/STOL transport, 16670
Chamise, live and dead, variations in moisture content of fuel size components, 10573
Chamizal Memorial Highway:
border highway along U.S. bank of Rio Grande, construct—
hearing, 13057
report, 14390
Chamizal National Memorial:
establish—
law, 11582
reports, 10123, 10317
Champlin, Jerry B. F., use of hot-finished mild steel coupons for corrosion inhibitor testing, 2348
Chan, Kwok-Long, electron densities and scale heights in topside ionosphere, 13726, 17890
Chance for a change, new school programs for disadvantaged, 13268
Chance on the outside, 11867
Chancelleries, foreign, establish international center in D.C., hearing, 17392
Chanceries, *see* Chancelleries.
Chandler, John H., unit labor cost in manufacturing, trends in 9 countries, 17810
Chang, F. M., total bed-material discharge in alluvial channels, 4526
Channel Islands National Monument, general information, 6503
Channels:
alluvial, data from flume experiments, 1956–61, summary, 13407
alluvial, resistance to flow, 17718
and hillslope processes, semiarid area, New Mexico, 12019
Mississippi River, Cairo to the Gulf, improvement and stabilization, 7719
natural, stage-discharge relations established by step-backwater analysis, definition, 6043
open-channel flow, laboratory studies (series), 825
radial coolant, fabricated by simplified method, 12309
rectangular, cross-channel transfer of linear momentum, 825
Chaparral, pringle manzanita, shrub seedling regeneration after controlled burning and herbicidal treatment, 2072
Chapels:
Protestant, in Armed Forces—
guidelines for men of the chapel, 612
guidelines for women of the chapel, 613
Chapin, E. J.:
design, construction, etc., new high level radiation laboratory at NRL, 1353
radiant energy transport in BeO, 1352
Chaplains:
House, prayers, 89th Congress, 15780
print as H. doc., report, 10192
Naval Reserve, handbook, 1346
Navy Supervisory Chaplains Conference, proceedings, 12417
VA workshops 1966 (papers), 16895
Chapman, Andrew J., silicone, phenolic, and epoxy base heat-shield materials, 17914
Chapman, Jane R., Oak Glen, training camp for unemployed youth, 14961
Chapman, Roger C., aerial photo standvolume tables for some California timber types, 10580
Character guidance, *see* Guidance.
Characteristics and trends of clients rehabilitated, 6691
Charcoal:
activated, 1953–64, list of selected references, 11086
adsorption, 8 available commercially, laboratory comparison, 17856
Charest, Jacques, mechanics of penetration of piles into permafrost, 8245
Charge exchange, resonant, cross sections in nitrogen and argon, measurements, 4980
Charge to mass ratio, *see* Specific electronic charge.
Charges (explosive):
effect of charge weight on vibration levels from quarry blasting, 12243
efficiency of charges with air gaps, USSR study, 6155
Charitable institutions:
judicial reform, deduction of contributions for income tax purposes, report, 5658
state constitution changes, deduction of contributions for income tax purposes, report, 13162
Charitable organizations, unrelated debt-financed income of tax-exempt organizations, impose tax, hearing, 15997
Charities, fund raising within Federal service for voluntary health and welfare agencies, manual, 17043
Charles County, Md.:
preservation and protection of certain lands, facilitate—
law, 12838
reports, 8627, 13137
Charleston, S.C.:
hurricane survey, engineer report—
departmental edition, 8859
document edition, 8501
principal electric facilities, map, 7380
Charleston, W. Va., area wage survey, metropolitan area, 14971
Charleston Harbor, reduction of shoaling, 13298
Charlotte, N.C., area wage survey, metropolitan area, 13602
Charnow, Milton L., development of Hansen's coordinates in lunar problem by method of iteration, 7887
Charring ablators, *see* Ablation materials—Ablators.
Charters:
American Veterans of World War II, amend—
law, 17104
report, 17222
Federal, consideration, authorization, report, 4190
Federal mutual savings banks, legislation—
hearings, 8661
text of bill, with amdts., 10234
Georgetown University, amend to clarify corporate name, report, 17414
Charts:
case, opens to form briefing easel, 7789
century of agriculture in charts and tables, 12596
Federal money for education, programs administered by Office of Education, 4302
handbook of agricultural charts, 16921
information-theoretic concepts in theory of graphs, 10947
mathematical functions with formulas, graphs, etc., NBS handbook, list of errata, 7908
scale interpolator facilitates reading of graphs, 13738
sold by Superintendent of Documents, price list, 1409

Charts—Continued
traffic sign charts, announcement and order form, 17998
see also Maps and charts—Organization charts—*also* subjects.
Chase, John L.:
directory of graduate deans, 1872–1965, at United States universities, 11869
number and kinds of second-level degrees conferred by United States institutions of higher education, 11877
Chase, William W., planning preschool facilities, 11878
Chassis units, inserted or extracted quickly with rack mount device, 4878
Chattanooga, Tenn.:
area wage survey, 1094
principal electric facilities, map, 7380
Chatters, Roy M., proceedings of 6th International Conference, Radiocarbon and Tritium Dating, 11422
Chauncey, Howard H., salvia protease levels in relation to periodontal status in man, 11381
Chebyshev polynomials, *see* Polynomials.
Checking prepackaged commodities, manual for weights and measures officials, Spanish translation, 1291
Checklists:
business service, 2720
State publications, monthly, 3209
see also names of departments, etc., issuing checklists—*also* subjects.
Checks:
drawn in favor of banks, etc., for credit of Federal employees account, 5191
Federal reserve system check clearance float, hearing, 7146
social security, 2563
Cheese:
family meals, guide and recipes, 9818
industry in U.S., sources of information, 6876
laws and regulations affecting cheese industry, summary, 12593
production in United States, 16726
Cheka, notes of chekist, USSR article, 7598
Chelan division, *see* Chief Joseph Dam project.
Chelating resins, *see* Resins.
Chelsea, Kans., railroad accident, 12071
Chemical analysis, copper-base alloys, procedures, 12436
see also Electrochemical analysis—*also* names of substances analyzed.
Chemical elements:
atomic transition probabilities—bibliography, 7916
hydrogen through neon, 11092
distribution in shelf and eugeosynclinal black shales, 10632
distribution of minor elements in coals of Appalachian region, 13393
light elements, absolute photon yields by deuteron bombardment, 16699
narrow band X-ray detector for identification, 6855
origin associated with uranium in Cave Hills area, Harding County, S. Dak., 17719
thermodynamic properties, tables, 9553
very light elements, nondispersive analysis, 12376
Chemical engineers, employment outlook, 9236
Chemical equilibrium, *see* Equilibrium.
Chemical industries, *see* Chemicals.
Chemical milling:
etching process mills Ph 14–8 Mo alloy steel to precise tolerances, 10984
inventions, royalties for use by Government contractors, GAO review, 7478
solution produces smooth surface finish on aluminum, 13748
Chemical reactions:
carbides, nitrides, and diborides of titanium and zirconium, 13836
chemical-kinetic basis for differentiation of secondary and priming explosives, 7902
fluorine and fluorine-oxygen mixtures spilled on various materials, 78816
ignition kinetics of carbon monoxide-oxygen reaction, 16706
kinetics behind normal shock waves in mixtures for conditions typical of Mars entry, 6451
metallides and reactions among them, USSR study, 7576
microorganisms detected by enzyme-catalyzed reaction, 7774
Chemical solutions, *see* Solutions.
Chemical warfare:
chemical agents—
employment, Army field manual, 8250
now employed or contemplated by Pentagon in Vietnam, USSR study, 2195
USSR, regulations concerning chemical services, Armed Forces, 960
Chemical Warfare Service, Army, chemicals in combat, U.S. Army in World War II, 9358
Chemicals:
agricultural—
census of manufactures, industry report, 3894
registered pesticides, summary of uses, supplement, 5276
basic, commodity transportation survey, shipper series, 3909
benzenoid, imports, 5185, 14042
chemical plants, investment and operating costs, bibliography, 12235
chemicals and allied products, census of manufactures, 1963, manufacturing plants, location, 12700
chemicals and chemical products, Federal item identification guides for supply cataloging, supplements, 2937
chemicals and related products, trade and tariff information, summaries, 16875
coal, mineral industry survey, advance data, 14998
coal, minerals yearbook chapter, 1106
compounds authorized for use under poultry, rabbit, and egg products inspection, 10376, 16201
compounds, control of cabbage caterpillars, field evaluation, 14100
Czechoslovak Society, membership of Slovak group of Slovak Academy of Sciences, 2261
data guide for bulk shipment by water, 10007
file organization for large information system, 9554
gum and wood, census of manufactures, 1963, industry statistics, 6902
Hungarian Chemical Society, 1966 general assembly, report, 14933
in combat, U.S. Army in World War II, 9358
industrial inorganic and organic, census of manufactures, 1963, industry statistics, 8333
industry, employment outlook, 9298
industry reports, 2746
inorganic—
current industrial reports, 2817, 5478, 8353
trade and tariff, information, summaries, 16875
Little Blue River basin, chemical quality of water, 17728
miscellaneous chemical products census of manufactures, industry report, 3895
new industrial, toxicology, USSR study, 901
planning in chemico-pharmaceutical industry, USSR, 4643
products, commodity transportation survey, shipper series, 213

Chemicals—Continued
protection against radiation damage to immune response in mouse spleen cells, 15494
research in Hungary, 4670
safely use in production of beef cattle, swine, and sheep, 9831
structure characterization of phenylhydrazone-phenylazo tautomerism, progress report of Organic Chemistry Section, July 1965–June 1966, 17944
surface methods of displacing water and/or oils and salvaging flooded equipment, 1376
Tennessee Valley Authority, 1965 development, 6670
thermodynamic properties, selected values, tables, etc., elements 23 through 32 and compounds, 9553
toxic, used in agriculture, scientific symposium on toxicology and hygiene, USSR study, 967
toxic, used in Soviet agriculture, study, 2229
USSR, Hungarian scientist visits and describes Soviet research institutions, 9102
USSR industrial development, translations, 3659
chemical machine building, 3660
see also Fluorochemicals—Inorganic compounds—Organic compounds.
Chemistry:
AEC basic research program (off site), summaries, 5404
analytical, conference, Oct. 8–9, 1964, Cincinnati, Ohio, proceedings, 145
at Brookhaven (remarks), 16977
career opportunities, examination announcement, 5519
chemistry and medicine, USSR study, 941
chemistry of beryllides, USSR study, 14854
Communist Chinese abstracts, 2769
complex compounds, use of physical methods to study, 2d conference, 16437
East European abstracts, 2866
enzymes, USSR study, 970
Hungary—
technical chemical research, 9186
Technical Chemistry Research Institute, 5th anniversary, 9186
International Congress of Pure and Applied Chemistry scientific papers, abstracts, 8281
iron-rich sedimentary rocks, 4520
journal of research, National Bureau of Standards, 3100, 17937
lavas, 1959–60 eruption of Kilauea Volcano, Hawaii, 7488
medical, Soviet studies, 9073
Mendeleyev congress, USSR, 934, 979
Mendeleyev Society 1965 prize winners, USSR, 14930
Rumanian inventions, 10805
surface properties of fluorochemicals, 5073
surface, proteins and polypetides, 16755
USSR abstracts, 3672
see also Geochemistry—Organic chemistry—Petrochemistry—Radiochemistry.
Chemists:
employment outlook, 9263
examination announcement, 14302
Hungarian Society, work plan and news, 10740
industrial hygiene, syllabus for short courses, laboratory manual, 16802
pay, Feb.–Mar. 1965, survey, 2503
radioisotopes, examination announcement, 8404
trainee, examination announcement, 298
Chemotherapy, cancer chemotherapy reports (periodical), 2726
Chemsak, John A., West Indian Cerambycidae (Coleoptera), 5043
Chen, James Y. P., effects of cold exposure upon action of therapeutic drugs, 9860
Chen, Li Tsu (Nako):
relief, 12899, 14361
Chen, Ta Shen, stresses in rock disk subjected to peripheral thermal shock, 15024
Cheng, Chu-yuan, scientific and engineering manpower, 1949–63, Communist China, 2478
Cherokee Indians, Chilocco Indian School lands, hold in trust, report, 12931
Cherries:
brined, texture, 8132
firmness and its relationship to pitter loss, 14105
marketing orders for freezing and canning, issuance without approval of processors, hearing, 17564
production, use, value, 1964–65 by States, 15379
sour, crop production report, 12542
Cherry, black cherry logs not degraded by adventitious bud clusters, 5978
Chesapeake Bay:
basin project for water supply and water quality management, 16291
fisheries, annual summary, 2035
storm warning facilities chart, 12561
Chesapeake Bay Bridge-Tunnel, motor carrier accident, 873
Chesebro, John S., Army information digest, 2690
Chest, closed drainage, programed course for nurses, 9623
Chewing, *see* Mastication.
Cheyenne, Wyo., land transfer, law, 445
Chicago, Ill.:
area wage survey, metropolitan area, 14970
board of trade, futures trading and open contracts in wheat, corn, etc., 3014
commodity transportation survey, production area series, 6919
Communist activities in area, hearings, 4148
fresh fruit and vegetable prices, 9840
manpower training facilities selection, etc., GAO report, 12006
Mercantile Exchange futures trading and open contracts in eggs and potatoes, 3012
port development and international trade (remarks), 7371
principal electric facilities, map, 7375
Chicago, Burlington & Quincy RR., accident, 12077
Chicago, Milwaukee, St. Paul and Pacific RR., accident, 12074
Chicago, Rock Island Pacific RR., accident, 12076
Chickenpox, health information, 15279
Chickens:
broiler, commercial production, etc., 9737, 11281
broiler-fryers, homemakers' opinions and preferences, 14141
brooding chicks with infrared lamps, 41
development of chick embryos, analysis of effect of replacing nitrogen by helium in air, 978
egg production tests, U.S. and Canada, 1965 report, 3731
family flock for Appalachia, 11355
home flock, 43
layers and egg production, 11280
lice, how to control them, 6751
national poultry improvement plan, breed distribution of participating flocks, 8128
number raised, 1966, estimates, 15376
production, disposition, cash receipts, and gross income, 1964–65, by States, 9737
pullet chicks for broiler hatchery supply flocks, 3432
radiant energy distribution of 3-gas-fired infrared chick brooders, 9777
tested by official State agencies, monthly report, 3627
what today's homemakers think about chicken (remarks) 1611

Chicopee, Mass., commodity transportation survey, production area series, 8340
Chicory:
duty, suspension and reduction, continued—
law, 10090
reports, 8559, 10300
Chief Joseph Dam project:
Chelan division, Manson unit, construct, etc.—
hearing, 5696
law, 15736
reports, 7085, 8568
Chilchinbito quadrangle, Ariz., geology, 816
Child care, *see* Children.
Child development, *see* Children.
Child health, *see* Children.
Child labor:
bulletins, 11309, 14070
fair labor standards act—
provisions, guide, 14070
requirements in agriculture, 11309
State standards, summary, 4703
Child life, *see* Children.
Child placing, children of minority groups for adoption, how one social agency is focusing effort and skill, 275
Child study, *see* Children.
Child welfare institutions:
public institutions for delinquent children, 1964, statistics, 3947
quest for equality, story of how 6 institutions opened their doors to serve Negro children, 14282
Children:
America's children and youth in institutions, demographic analysis, 6943
book selection aids, 8836
books, guide for parents, 9827
brain dysfunction, minimal—
terminology and identification, 11109
who is this child? 10432
care of teeth, 12733
centers of gravity, sitting and standing, 8307
child care, birth to middle teens, Government publications, list, 7988
child development center concept, relationship to preschool and day care, 4267
child development specialists for use in elementary schools—
hearings, 5689
report, 5676
child health program, significance of 1965 social security amendments (address), 277
child nutrition act of 1966—
hearings, 13010
reports, 12985, 15890
child protection act of 1966, reports, 15942, 16121
child safety act of 1966, hearings, 15979
child with central nervous system deficit, 5504
childhood disorders of brain and nervous system, research progress, summary, 1318
children of deceased or disabled Philippine veterans, extend educational assistance benefits—
hearing, 16195, 17397
law, 17112
reports, 15867, 15878, 16134
children of deceased or disabled veterans, education assistance, 2621
children of deceased veterans, liberalize payments, reports, 10135, 16076
children of disappeared veterans, payment of pensions—
law, 11576
reports, 10130, 11751
children's books, 1965, list, 7681
children's books, selected list, 16223
consumer information, price list, 2519
Children—Continued
define the term child for civil service pensions lump-sum payments—
hearing, 5822
law, 10058
report, 8723
dependent—
of unemployed parents, aid to families, 3633
of unemployed parents in D.C., provide aid, report, 544
public assistance, monthly cost standards for basic needs used by States, Jan. 1965, revised table, 7343
disadvantaged—
administration of elementary school programs, 16225
conference proceedings, 13275
educating in elementary school, bibliography, 16229
educating under 6, 5871
education in middle grades, 4298
ERIC catalog of selected documents, 16226–27
head start child development centers—
daily program, 4273
equipment and supplies, 4277
good nutrition, 4272
invitation to help, 4268
medical guide for directors, 4271
parent participation, 4275
securing the needed staff, 4270
selection and recruitment of volunteers, 4274
social services, 4276
National Teacher Corps to reach and teach children of poverty, 8849, 11876
school programs, under elementary and secondary education act of 1965, 13268
series, 4298, 5671, 16229
District of Columbia, census, amend act, report, 13140
education in federally affected areas, 1965 annual report, 4295
educationally deprived—
better schooling programs, 640
school programs, basic facts for school administrators, 1975
special programs, guidelines, 4304
exceptional, research, 12734
facts and figures, 9978
farm migrant, school transfer records, 655
feeding young children, 6764
films on child life, 276
food service programs, strengthen and expand—
hearings, 13191, 17375
reports, 13146, 15865
fun with circle games, guide for parents, 9828
handicapped—
education, conference report, 10421
education, preparation of professional personnel, manual, 16239
military medical benefits act of 1966—
hearings, 13195
reports, 7105, 8612, 16091
parent education project, 1741
visually, educational programs, 8839
health needs and services, effects of recent demographic trends, 11484
heart disease, training program in cardiology, workshop proceedings, 6582
helping parents teach young children, guide for home economics program assistants, 8162
hematology in pediatrics, USSR study, 9066
Indian and Eskimo, picture story book, 13423
interdisciplinary journal for professions serving children, 2747
introducing children to space, Lincoln plan for elementary schools, 12276

Children—Continued
learning about learning, conference, report, 8847
learning through touch, guide for parents, 9830
mental health, child program, National Institute of Mental Health, 7930
mentally retarded—
rare inborn errors of metabolism, 8374
research projects, list, 8375
social security benefits, 15329
modern mathematics and your child, 4311
nephropathy concomitant with bile duct diseases, diet therapy, USSR study, 1032
nursery-kindergarten enrollment under six, 10428
pediatrics, Indian Health Division residency program, 2524
physical abuse, mandatory reporting by physicians in D.C., reports, 17200, 17288
poor—
child-rearing patterns associated with poverty, 11319
improving opportunities and achievements, 10402
preschool facilities, planning, 11878
preteens, moving into adolescence, 11483
project grants to provide comprehensive health services, policies and procedures, 3944
promoting atheism among children, USSR, 16392
qualification as stepchild for social security benefits, reduce period, report, 17331
research programs, studies in progress, 12734
research relating to special groups of children, 8375
school health program, outline for school and community, 15302
selected facial measurements for oxygen-mask design, 15555
6–11 years, health examination survey, psychological measures used, 8004
sleep and electric sleep, USSR study, 14850
something for special child, 7320
special milk programs, extend—
hearings, 13191, 17375
reports, 12985, 13146, 15865, 15890
special milk program, make permanent, etc. hearings, 13010, 11786
State child welfare plans, staff development provisions, 5905
summer lunch program, establish—
hearings, 13030
report, 8634
talented students, provisions for, bibliography, 5883
who need protection, services under AFDC, caseworkers' manual in public assistance agencies, 1999
with-matches fires in Angeles National Forest area, prevention, etc., 17695
work injuries to minors, report, 16518
your child from 6 to 12, 9975
see also Adoption—Child labor—Child planning—Orphans.
Children, Disadvantaged, National Advisory Council on Education of, *see* National Advisory Council on Education of Disadvantaged Children.
Children's Bureau:
folder series, 3943
infant care, bestseller publications, story of development, 278
publication series, 276,3945, 5504, 6941–43, 8373–74, 9975–76, 11483, 12732–733, 14282
publications, list, 9977
publications, price list, 6569
statistical series, 3947–48
Children's clothing, *see* Clothing.
Chile:
agricultural commodities, agreement, 5168, 11275
Chile—Continued
background notes, 8040
Bolivia boundary, study, 11238
education and social change, 11871
fisheries, 7433
foreign trade regulations, 4008
mineral industry, minerals yearbook chapter, 7690
Peru boundary, study, 9723
special study mission, report, 12963
uranium exploration, 6859
Chilling injury of eggplant fruits, 14140
Chilman, Catherine S.:
approaches to measurement of family change, 14085
growing up poor, 11319
moving into adolescence, your child in his preteens, 11483
social, psychological, and economic aspects of alcoholism, 15428
your child from 6 to 12, 9975
Chilocco Indian School, lands, hold in trust for Cherokee Nation, report, 12931
Chimaeras, general information, 4404
Chimeras, radiation, and transplant immunity, USSR study, 14920
Chimes, *see* Carillons.
Chimneys and fireplaces, general information, 32
Chimpanzees, effect of rapid decompression to near vacuum, 1188
China:
agriculture prior to 1949, publications, list, 17935
ancient novae and supernovae, and their significance in radioastronomy, 4993
Cenogoic group, 13470
coast, sailing directions, change, 5054
Communist—
Acta geographica Sinica (periodical), translations, 16402
agricultural situation, 7291
background notes, 18108
blueprint for aggression, the People's war, strategy for world Communist domination, 12648
blueprint, long range strategy for world Communist domination, 5338
church and state under Communism, 7220
claims of U.S. nationals against regime, determination—
hearing, 17377
report, 17290
digest, 2767
food and agriculture, translations, 3595
geographical society, symposium on geomorphology and economic geography, 16455
geographic strengths and weaknesses, 18117
industry and materials, translations, 3596
management, trade, and finance, translations, 3597
military, political, and economic policy, present and immediate future—
hearings, 7144
report, 14387
print as House document, reports, 13000, 16099
report on hearings, 10244
mineral industry, minerals yearbook chapter, 2332
people's war, 20th anniversary of victory, commemoration, national policy, etc., 14690
political and sociological information, translations, 3590
political geography, Chinese study, 14808
principal rivers, 4636
science and technology, evaluation of comprehensive study, 16460
science and technology, translations, 3598

China—Continued
Communist—Continued
scientific abstracts, 2768–75
scientific and engineering manpower, 1949–63, 2478
strategic survey, bibliography, 11400
transportation and communications, translations, 3599
United States and Communist China (address), 8057
United States policy statement, 11252
United States policy with respect to mainland China, hearings, 8773
print additional copies, reports, 10214, 10290
USSR boundary study, 8065
water resources, plans and prospects for development, 889
Republic—
agricultural commodities, agreement, 9732, 11269
atomic energy safeguards, application by IAEA for peaceful uses, agreement, 2587
defense, status of United States armed forces, agreement, 14032
economic aid, agreement, 5161
loan of naval vessels, law, 8474
loan of naval vessels, report, 4172
China Sea, *see* South China Sea.
Chincoteague National Wildlife Refuge, birds, list, 16305
Chinese, cooly trade laws, repeal, report, 15910
Chinese Geographic Society, annual convention, 1963, geomorphology, papers, 13585
Chinese gooseberries, tariff classification, amend, report, 17318
Ching-chi yen-chiu (periodical): translations, 3587
Chinitz, Benjamin:
addresses, etc.—
Feb. 10, 1966, 5541
May 19, 1966, 10032
Sept. 1, 1966, 14322
Chinn, George M., machine gun, history, etc., 1385
Chippewa Indians:
Minnesota Chippewa federally owned lands, hold in trust—
law, 11568
reports, 4113, 10313
Chiropody:
podiatrists, employment outlook, 9265
podiatrists' services, payment under supplementary medical insurance program for aged, report, 17335
Chiropractors, employment outlook, 9221
Chirpan, Bulgaria, 40th anniversary of Cotton Institute, 17784
Chisholm, L. J., report of 50th National Conference on Weights and Measures, 7914
Chleck, David, development of krypton-85 as universal tracer, 8289
Chloral hydrates, interaction with some substituted anilines, 933
Chloroperfluoronitrosoalkanes, action of phosphorus acid esters on chloroperfluoronitrosoalkanes, USSR study, 1011
Cho Myung Hee, relief, 7075, 11541, 11726
Cho Myung Soon, relief, 7075, 11541, 11726
Choate, Grover A., forests in Utah, 4478
Chocolate, *see* Confectionery.
Cholera, *see* Hog cholera.
Cholesterol, total, in human serum, simplified test tube method for analysis, 12640
Choline, *see* Hemicholinum.
Cholinesterase:
activity, determination, USSR study, 16406
metallic complexes roles in reactivation of cholinesterase inhibited by organic phosphorus compounds, USSR study, 14943
Cholinolytic drugs, pharmacology and clinical application of central cholinolytics, USSR study, 7612
Chouman, Yusef A., relief, 14356, 16027
Choy-Sim Mah, *see* Mah, Choy-Sim.
Christian social concerns and Great Society, remarks, 10839
Christianity, effects of Christian religion on people, USSR study, 17768
Christie, Marjorie B., list of publications, Farmers Cooperative Service, 11908
Christmas, 5-cent commemorative postage stamp (poster), 16780
Christmas Island, *see* Australia.
Christmas trees:
export from Montana, 1964, 796
tradition and trade, 11349
Christol, Carl Q., international law of outer space, 9599
Chromatographs:
mass spectrometer-gas, duty-free entry, 375
subminiaturized gas chromatograph gives fast, efficient analysis, 10993
Chromatography:
chromatographic separation, radiochemical water analysis in reactor, USSR study, 14852
gas—
analysis for acyl components of neopentyl polyol ester lubricants, 12425
detector for chemically active materials, 7793
determination of dissolved gases in sea water, statistical evaluation, 12428
thin-layer, cleanup and confirmation of identity of pesticide residues, 14113
thin-layer, spreader for preparation of uniform plates, 8954
Chromite:
carbon reduction of chromite, 9377
chemical grade, disposal from supplemental stockpile, hearing, 570
metallurgical grade, disposal from national and supplemental stockpiles—
hearing, 10325
law, 10066
reports, 8580, 8749
Chromium:
alloy liners for small arms barrels, radiographic and visual soundness requirements, military standard, 11853
disposal from stockpile, hearing, 570
mineral industry survey, monthly, 2748
minerals yearbook chapter, 16555
Chromium boride, diborides in pseudobinary system TiB_2-CrB_2 electrical properties, 1162
Chromium oxide, coatings improve thermal emissivity of alumina, 11020
Chromosomes, structure and function, international symposium, 5030
Chronic diseases, *see* Diseases.
Chronic Diseases Division, research grants program, 2539
Chronic inflammation and tumorous growth, USSR, 9064
Chrysanthemums, production and sales, etc., 8089
Chrysomelids, *see* Beetles.
Chu-yuan Cheng, *see* Cheng, Chu-yuan.
Chub, fresh and smoked, salt concentration, 7435
Chubb, Donald L., low density Hall current ion accelerator, 6435
Chucks:
device facilitates centering of workpieces in lathe chuck, 12318
lathe chuck key incorporates safety feature, 11035
Chudnoff, M., solar drying of tropical hardwoods, 16338
Chulis, George S., dental visits, time interval since last visit, etc., 8005
Chung, Kil Ja, relief, 16005
Chung Woo Lee, *see* Lee Chung Woo.
Church, Frank, Europe today, 10342
Church, Richard E., origin and environmental significance of large-scale patterned ground, Donnelly Dome Area, Alaska, 1637

Church, Thomas W., jr., cost of scaling & grading hardwood sawlogs, 10602
Churches:
and antipoverty program, manpower policy and program, seminar, 17801
brighter vistas, church programs for older adults, 5260
church and state under Communism—
Communist China, 7220
Hungary, Czechoslovakia, German Democratic Republic, 7219
North Korea and Democratic Republic of Vietnam, 8780
Communist Party and Soviet government's attitude, 7601
District of Columbia, picketing within 500 ft., prohibit, report, 12984
Churchill, Winston, *see* Sir Winston Churchill Day.
Churchward, Philip E., tungsten recovery from low-grade concentrates by amine solvent extraction, 17854
Churgin, James, International Indian Ocean Expedition track charts, 15232
Chute, A. Hamilton, retail merchandising and promotion, 12504
Ciacco, Eleni B., relief, 384
Ciardi, John, relevance of the Inferno (lecture), 2306
Ciardiello, Eligio, relief, 5737, 7020
Cibecue Ridge, Ariz., juniper and pinyon woodlands, throughfall for summer thunderstorms, 6033
Cicadelloidea, catalogue, 9792, 12587, 16917
Cicolani, Luigi S.:
interplanetary midcourse guidance using radar tracking and on-board observation data, 16686
linear theory of impulsive velocity corrections for space mission guidance, 7878
Cigarettes:
irradiated, pyrolytic products, 5395
manufacturing, industry wage survey, 4732
marketing bill, 622
Cigars:
Federal excise tax, treatment of State and local taxes for computing, report, 17304
U.S. cigar leaf tobacco, changed market, 14540
Cincinnati, Ohio:
aerial radiological measuring survey of area, 8280
automobile crankcase ventilation systems, performance, 15293
commodity transportation, production area series, 9956
locomotive builders, 1845–68, 9565
principal electric facilities, map, 7375
wage survey, metropolitan area, 10871
Circadian rhythm:
human system, phase shift and performance deficit during periods of transition—
East-West flight, 8308, 11446
North-South flight, 9936
Circles, fun games for children, guide for parents, 9828
Circuit Courts of Appeals, uniform civil appellate rules, reports, 14455, 17247
see also Judges.
Circuit judges, *see* Judges.
Circuits:
all-magnetic PCM telemetry—
feasibility breadboard, 17879
review of system breadboard, 9409
automatic gain control circuit handles wide input range, 7765
communication, tropospheric, transmission loss predictions, 13861–862
compact SCR trigger circuit for ignition switch operates efficiently, 1222
complementary monostable, achieve low power drain and high reliability, 10991
computer, calculates cardiac output, 4843
Circuits—Continued
control, maintains unity power factor of reactive load, 16645
device as hinge and electrical connector for board, 13794
electric, provides accurate four-quadrant multiplication, 13766
electronic bidirectional valve, prevents crossover distortion and threshold effect, 16640
electronic components on circuit board, fixture aids soldering, 9471
electronic phase-locked-loop speed control system is stable, 12295
etched, selective electroplating, 1238
Exclusive-Or logic, useful properties, 12314
integrated devices for electronic equipment, handbook, supp., 12500
Laplace-Galois transform in theory of series machines, USSR study, 9154
low power nanosecond pulse and logic circuits using tunnel diodes, 15168
operating as sine function generator, 6366
parallel transistor chopper circuit for improved performance, 7772
power efficiency greater than 75 percent, design, 6364
remote preamplifier, maintains stability over wide temperature range, 16646
ring counter, switches motor direction of rotation, 9453
rugged microelectronic module package supports circuitry on heat sink, 11037
sensing circuit protects regulated power supply against overload current, 12330
simple, performs binary addition and subtraction, 1230
simple, provides reliable multiple signal average and reject capability, 12322
simplified circuit corrects faults in parallel binary information channels, 12303
solid state thermostat has integral probe and circuitry, 9486
superconducting parallel path, electrodynamics, 16770
transistor circuit increases range of logarithmic current amplifier, 13785
two-light, continuously monitors ac wires, 7808
Circular, explosion-proof lamp provides uniform illumination, 9468
Circulars, *see* names of departments, etc., issuing circulars.
Circulation of blood, *see* Blood.
Circulation of money, *see* Money.
Circulatory system, *see* Cardiovascular system.
Circus, American, 5c commemorative postage stamp (poster), 7984
CISR, *see* Center for International Systems Research.
Cities and towns:
automation and changing cities (remarks), 11115
beautification efforts of Federal Government, report, 2517
better cities for tomorrow (remarks), 17733
center of our society, the American city (remarks), 15261
city demonstration programs—
hearings, 8659
recommendations, message from the President, 5605
reports, 14388, 17202
summary of bill, 8664, 13023
city government finances, 11476
city government responsibilities to society (remarks), 1970
city is a teacher, ghetto schools must change (address), 16228
coastal community, model hurricane plan, 14075
communities in action, war on poverty, 2776, 8821

Cities and towns—Continued
community adjustment to reduced defense spending, 14207
community advancement, Federal programs, 11347
community employment program, developments, 14568
consumer expenditures and income, 1960–61—
north central region, 7662
cross classification of family characteristics, 10855
northeastern region, 10854
cross classification of family characteristics, 12207
southern region, cross classification of family characteristics, 13591
southern region, supp., 7663
United States, 6255, 10857
cross classification of family characteristics, 12208
western region, 9205
cross classification of family characteristics, 10856
demonstration cities and metropolitan development act of 1966—
reports, 13186, 15897, 17241, 17336
demonstration cities program, general information, 14760
design districting, integrating commercial and social aspects of society (remarks), 5555
economic opportunity, future (remarks), 12794
EDA program for building communities with jobs, 1964, 7272
Federal aid to communities, handbook, 11856
Federal services to help communities plan with youth, 60
financial assistance to small towns for water and waste disposal systems, 6769
fire service, future, 16352
focus on clean water, action program for community organizations, 8932
freeways to urban development, 16813
handicapped workers, community assets, 1967 report theme contest, 11th and 12th grade students, announcement, 7650
housing and urban development act of 1965, law with related documents, texts, 510
housing units authorized in metropolitan areas, construction reports, 12705
job corpsmen and women assist neighboring communities, 13260
joint development of urban housing and urban freeways (remarks), 12492
large cities, school library supervision, 7319
laws on urban development, compilation, 1847
loan closing costs on single-family homes in 6 metropolitan areas, 838
local-service airline passengers, letter to mayors (periodical), 3578
mass transportation amendments of 1966—
law, 15740
report, 13183
median city, capsule view of social welfare programs, in U.S., 16905
medical care in your community, 11193
metropolitan areas, families and unrelated individuals, 1964 income, 8364
metropolitan areas, population, provisional estimates, 11469, 14274
metropolitan councils of governments, information report, 16915
Neighborhood Youth Corps, better communities through conservation, 16516
new town concept (remarks), 10665
occupational earnings and wage trends in metropolitan areas, 6273, 10880, 16541
open space for urban America, 5204
patient returns to community, guide for voluntary service program, 11306
Cities and towns—Continued
population estimates, large metropolitan areas, 8361
population estimates, largest standard metropolitan statistical areas, 6928
small business problems in urban areas, hearings, 531, 1869, 4147, 15993
soil surveys, community planning and resource development—
hearing, 17354
law, 17099
report, 17207
spending and saving in urban and rural areas, 2293
transportation problems (remarks), 15316
urban agglomeration and its meaning for rural people, analysis, 13263
urban planning assistance program, report, 3468
urban public welfare administration, restructuring, conference, report, 18144
water facilities, inventory 1963, statistical summary, 2540
zoning for small towns, guide, 11857
see also Redevelopment (city planning etc.)—*also* names of cities and towns—*also* subjects.
Citizens' Advisory Council on Status of Women, report on progress in 1965 on status of women, 13426
Citizens Committee, National, *see* National Citizens Committee.
Citizens of United States:
citizens abroad—
tax guide, 2125
tax return filing requirements, 2127
community organization for participation in voluntary democratic associations, bibliography, 1396
Citizenship:
becoming a citizen series—
our American way of life, 2110
our Government, 4543
our United States, 6051
teacher's guide, 4544
Federal textbook, English, home, and community life, home study course—
for helper, 7502
for student, 7503
Federal textbooks on citizenship, 2110, 4543–44, 6050–52, 7502–4
charts, 6053
publications, price list, 1407
records in National Archives, 7906
see also Naturalization.
Citizenship Day, bulletin, 16367
Citric acid, nonhazardous acid etches weld samples, 15108
Citrus fruit:
consumer purchases of fruit, juices, drinks, and other products (periodical), 2794
Florida cooperatives, pooling after 1962 freeze, 14142
foreign agriculture circulars, 2987
industry, Greece, 8950
prices and market structure in Lower Rio Grande Valley, Tex., 8148
production, use, value, by States, 1964–65 and 1965–66, 16869
City halls and emergency operating centers, 3965
City of Clinton Bridge Commission, act creating, revive, etc. law, 12825
City planners, employment outlook, 9286
Civics teachers, advanced study, national defense institutes, manual, 5877
Civil Aeronautics Board:
annual report, 5505
applications, etc., filed with CAB, 2682
appropriations 1967, hearings, 8651, 13193
economic regulations, 6945, 14284
letter to mayor of each city with local airline service (periodical), 3578
nomination of Whitney Gillilland, hearings, 4215
orders, economic, E series, 3300

Civil Aeronautics Board—Continued
point of view, airline industry (remarks), 9979
press releases, 3348
procedural regulations, PR series, 3418
publications, list, 3953
REA Express, research collaboration, staff study, 4583
regulations, 283–284, 3459, 3955–56, 5507, 9981, 11488, 12738, 15615
economic, ER series, 2875
regulatory responsibilities for air transportation (remarks), 15617
reports, economic and safety enforcement cases, 6944
safety investigation regulations, rules pertaining to aircraft accidents, etc., 14287
special regulations, 8382, 14288
United States air carriers, list, 5506, 14285
weekly summary of orders and regulations, 3702
Civil Air Patrol, air reservist (periodical), 2661
Civil air regulations, *see* Aeronautics.
Civil aircraft, *see* Aircraft.
Civil aviation, *see* Aeronautics.
Civil defense, *see* Civilian defense.
Civil Defense Office:
annual report, 6952
annual statistical report, 6953
civil defense management course, self-teaching materials, nuclear weapons effects, 17030
FG series, 289–290, 6958, 12741–742, 14289, 15621–622, 17023–26
handbook series, 5510, 8383, 9987, 15623, 17027–28
information bulletin, 3063
instructor's guide IG series, 8384, 15624
leaflets, 11491, 14290
miscellaneous publications MP series, 5511, 8385, 12743–744, 17029
national fallout shelter survey, phase 2 printout, self-teaching materials for reading, 17031
publications index, 5511
student manual SM series, 8386, 11493, 12745, 15625, 17030–31
technical memorandum, 1747, 5513, 12746, 14291
technical reports, 3965, 5514–15, 12747, 14292, 17032
Civil Engineer Corps, Navy, 100th anniversary, commemorative medal, reports, 17322, 17549
Civil engineering:
Air Force manual, 12619
Navy design manual, changes, 6707
Civil engineers:
Air Force (periodical), 2658
employment outlook, 9236
Navy civil engineer (periodical), 3253
Civil liabilities, soldiers' and sailors' civil relief act, as amended, text, 1872
Civil procedure:
actions by Indian tribes in district courts, remove limitation—
law, 17127
reports, 17236, 17482
civil action venue amendment, report, 15885
District Courts, rules, amendments adopted by Supreme Court, 7061
District Courts, rules as amended, 13051
imparting or conveying false information, reduce existing penalty, report, 1913
judicial proceedings in handling of savings bonds, some legal aspects, 2549
U.S. Courts of Appeals, uniform civil appellate rules, reports, 14455, 17247
Civil Reserve Air Fleet:
military airlift—
hearings, 10230
special subcommittee report, 10231
Civil rights:
achievement of human rights (addresses), 13587, 16511
act of 1964—
amend to provide grants, etc., to school boards, hearings, 13226
equal employment opportunities for women, 844
interpretations issued, etc., by Equal Employment Opportunity Commission, digest, 14582
legislative summary, 833
sex discrimination in employment, 6702, 15430
title 6, desegregation of health and welfare services in the South, survey, 5516
title 7, facts, 1996, 17639
act of 1966—
hearings, 14493
report, 12929
Christian social concerns and Great Society (remarks), 10839
civil status of women, 1562
community relations functions—
reorganization, disapprove, hearings, 7216
reorganization, message from the President, 4073
reorganization plan, hearing, 7149
reorganization, reports, 8566, 8731
Federal agencies with primary responsibilities, 4327
housing, education, etc., hearing before Civil Rights Commission, 14293
Labor Department, primary responsibilities, 4327
legislation to make authority against violence clear and sure, enactment, proposal, message from the President, 8509
miscellaneous proposals, hearings, 11671, 14493
school desegregation plans, revised statement of policies, 5882
guidelines, summary, 5875
schools, Southern and border States, desegregation survey, 1965–66, report, 6960
tragic gap between half-truth and ultimate honesty of civil results (address), 10838
voting rights act of 1965, first months, 1749
White House Conference "to Fulfill these Rights"—
council's report and recommendations, 11322
report, 15429
speeches, 12567
see also Privacy.
Civil Rights Commission:
appropriations, 1967—
hearings, 15955, 17567
reports, 15938, 17539
hearing, 14293
hearings on administration of justice, 1748
press releases, 3349
publications catalog, 14294
special publications, 6959, 11494
survey of school desegregation in Southern and border States, 1965–66, report, 6960
Civil service:
adverse action, law and regulations, FPM manual, supplement, 2946
annuitants, 65 or older, you are eligible for medicare, 5146
career opportunities—
agricultural marketing research, 3760
Budget Bureau, 15560
chemistry, mathematics, metallurgy, physics, 5519
Commerce Dept., 7001
economists, 295, 14304
futures in Federal Government, 6973

Civil service—Continued
career opportunities—continued
Housing and Urban Development Dept., 7500
Internal Revenue Service, career and sense of purpose, 4559
resource management, forestry, administration, minerals, etc., Land Management Bureau, 12227
safety officers, Army Department and other Federal agencies, 8389
wage-hour investigator in Labor Dept., 12557
careers, scientific—
agricultural engineering research, 1592
animal disease and parasite research, 53
soil and water conservation research, 1591
civil service journal, 2750
examination announcements—
accountant and auditor, 17036
amendments, 3967, 8388
aerospace technology positions, amdt., 5517
agricultural commodity grader meat, amdt., 15627
agricultural extension specialist, amdt., 15627
agricultural market reporter, 15626
agricultural marketing specialist, 15626
agricultural statistician, amdt., 15627
agricultural statistician, trainee, 3986
amendment showing new salary rates for positions in Federal government under general schedule, 302
anthropologist, 12758
auditor, 1751, 8392, 17037
auto mechanic, supervisor, 9993
bank examiner, 294
biochemist, discontinuance notice, 3978
biologist, discontinuance notice, 3978
carpenter, supervisor, 9993
cartographer, 14298
cartographer, trainee, 298
change of jurisdiction of Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 9991, 11495
chemist, mathematician, physicist, engineer, metallurgist, amendment, 14302
chemist, trainee, 298
criminal investigator, 3974
suspension notice, 5522
crop insurance fieldman and supervisor, amdt., 15627
current, 299–300, 1753, 3975–77, 6966–67, 8394–96, 12752–754, 14305, 15629, 17039
digital computer specialists, computer programer, computer systems analyst, 12755
digital computer systems operator, 9989, 14300
amendment, 3969
economics, careers, 296
economist—
amendment, 14304
discontinuance notice, 1754
electrician, supervisor, 9993
electronic technician, amdts., 293, 8391
employment service adviser, 6962, 10001
engineer, 8390
engineer, trainee, 298, 1752
engineering and scientific technician, suspension notice, 14312
engineering technician, amdts., 293, 12750
entomologist, 14307
equipment specialist, 3973
automotive positions, amendment, 9990
farm credit examiner, amdt., 15627
farmers, discontinuance notice, 8397
Federal administrative and management positions in administration, management, staff services, technical services, 1763
Civil service—Continued
examination announcements—continued
Federal service entrance examination, 6969, 14310
fireman, District of Columbia, 11498
fishery biologist, 9994
foresters, 3980
geodesist, 14295
geologist, 6974
geophysicist, 14296
guidance counselors, 15630
health scientist administrators and grants associates, 8402, 9995
hearing examiner, amendment, 3968
home economist, 1757
immigration patrol inspector, 11497
librarian, 5518
machinist, supervisor, 9993
mathematical statistician, amdt., 14303
mathematician, trainee, 298
medical officer, amdt., 292
medical technologist, 6976
meteorologist, 14299
mineral specialist, amdt., 17034
minimum pay amendment, 8387
minimum pay announcement, 291
oceanographer, trainee, 298
office and science assistant positions, summer jobs in '66, 311
office assistant, 17048
clerical and office machine operators, 6972
offset pressman, discontinuance notice, 8399
operations research analyst, 6977
amendment, 12749
painter, supervisor, 9993
pathologist, forest and forest products, 14307
photographers, suspension notice, 3985
physicist, discontinuance notice, 3978
physicists, trainee, 298
plumber, supervisor, 9993
positions at certain grades, amendment, 3966
postmaster, 3970–72, 15628
printer-proofreader, 9988
printers, monotype keyboard operator, slug machine operator, hand compositor, amendment, 9988
program specialist and adviser, 11496
suspension notice, 17049
psychologists, 9992
radio announcers, 6975
radioisotopes scientist, etc., 8404
range conservationist trainee, 1752
resident in hospital administration, 3987
resident youth worker, 15634
safety officers, amendment, 17033
savings and loan examiner, discontinuance notice, 14306
science assistant, 17048
scientific positions, 5521
scientist administrator, discontinuance notice, 8398
sheetmetal worker, supervisor, 9993
social administration adviser, 6962, 10001
social insurance research analyst, 6962, 10001
social workers, 12751
soil conservationist trainee, 1752
soil scientist trainee, 1752
statistician and survey statistician, amdt., 14303
statistics, careers, 297
stenographer and typist, 9999–10000, 17047
stenographer-typist, amendment, 6971
summer jobs, Postal Field Service, 3982
surveying aid, 14301
teachers (Job Corps, vocational subjects), 15630
technical aids in science and engineering, 11501
amendment, 14297

Civil service—Continued
examination announcements—continued
telephone operations and loans, field representative, discontinuance notice, 5520
telephone operator, 11500
trades and crafts, equipment operation and repair, at journeyman and junior levels, and for blue collar helper, 17035
veterinarian, 3988
warehouse examiner, 5523
welder (combination), supervisor, 9993
wildlife biologist, 9994
examinations—
Federal service entrance—
Labor Dept. requirements, questions and answers, 4698
preparation for, 15633
instructions to applicants, postmaster, 4th class, 15631
places where held, 307
sample questions, 309, 3983–84, 8403, 17046
Federal jobs overseas, 1760
Federal personnel, fund raising for voluntary health and welfare agencies, manual, 3178, 17043
changes, 1756, 6968, 11499
Federal personnel manual, 2943
supplements, 2944–51, 17041
Federal workforce outlook, 3979
handbook, 17038
handbook of occupational groups, etc., 3033
handbook 118C, transmittal sheet, 6964
handbook, qualification standards for classification act positions, 17038
handbook X–118, 3435
handbook X–118B, 303, 308, 1762, 3436
handbook X–118C, 3437
investigation, extension, report, 4165
job opportunities, local and regional examinations, 1758, 6970, 8401, 12756, 14311, 17042
laws, Executive orders, rules and regulations, FPM manual supplement, 2950
medical certificates, reviewing and acting on, 2945
national emergency standby regulations and instructions, personnel and manpower, FPM supplement, 17041
opportunities for returning Peace Corps volunteers, 15632
our commitments in Federal recruiting (address), 1759
position-classification standards, 3329
processing personnel actions, 2944
publication providing useful information on working for Uncle Sam, 2520
qualification standards—
classification act positions, 3435
postal field service, 303, 308, 1762, 3436
wage board positions, 3437, 6964
retirement act, amend to grant credit for service with North Carolina, hearing, 11677
supergrade positions, increase quota—
hearing, 11678
law, 17125
reports, 10220, 15917
thinking about your first job? remember Uncle Sam, 17044
veterans preference—
in employment, handbook for counselors, 17045
to civil service examination announcements, amendment, 6961
your civil service, 12757
working for U.S.A., applying for job, etc., 9997
see also Civil service pensions—Classification—Government officials and employees.
Civil Service Commission:
ADP Management Training Center, establishment, 1750
Civil Service Commission—Continued
appropriations, 1967—
amendment, 11698
hearings, 8651, 13193
commissioner, nomination of John W. Macy, jr., hearing, 10366
current workforce data, as of Dec. 1964, 301
interagency training programs, 9996
pamphlets, 1760, 6973, 9997–98, 12758, 15632, 17044–45
position classification, basic training course—
administration and operations, 306
classification process, 305
fundamentals and Federal plan, 304
report, 1965—
departmental edition, 6963
document edition, 7056
severance pay benefits, regulations, advance edition, 5703
training activities, hearing, 17379
Civil service pensions:
annual report, 6965
annuities of reemployed annuitants, redetermination—
hearing, 5822
law, 7042
report, 8722
Comptroller General, election to continue in system—
law, 15710
reports, 11777, 15844
credit Federal-State service for retirement, hearing, 17596
filing designation of beneficiaries—
law, 7037
report, 5790
Government claims, permit recovery, amend retirement act—
hearing, 5822
report, 1821
increasing annuities, law, 416
retirement act, amend relative to Botanic Garden employees, coverage—
law, 15771
report, 17476
retirement act, lump-sum payment, define term child—
hearing, 5822
law, 10058
report, 8723
retirement and disability fund, 1964, report, 8504
retirement benefits—
FPM manual supplement, 2947
increase, legislation, clarify, report, 1822
preservation for holders of congressional staff fellowships—
law, 7043
reports, 1844, 5789
staff retirement act amendments of 1966, 7160
survivors of reemployed annuitants, computing annuities, reports, 14465, 17261
Civil service retirement and disability fund, *see* Civil service pensions.
Civil War Centennial Commission, 100 years after, newsletter, 3293
Civil War, 1861–65:
catalog of books in Army Library, 5257
official records of Union and Confederate Armies, guide-index, prospectus, 14313
Civil works, *see* Public works.
Civil Works Study Board, report, 11830
Civilian defense:
act of 1950, extend emergency authority of the President—
law, 15705
report, 15861
activities, appropriations, 1967, hearings, 8651
adult education course, personal and family survival—
student manual, 12745
teachers manual, 11884

Civilian defense—Continued
Alaska earthquake, 1964, emergency operations, preliminary report, 8385
background, and current damage limiting studies (speech), 14292
CD newspictures, 2734
city halls and emergency operating centers, 3965
civil defense duties of population and rules of conduct under conditions of enemy attack, USSR study, 886
civil defense information for food and drug officials, 7446
Civil Defense Office information bulletin, 3063
civil defense survey, crew leaders handbook, 11461
Congressional testimony on civil defense, 89th Cong., 2d sess., excerpts, 12744
defense against weapons of mass destruction in rural area, USSR study, 973
disaster preparedness, orientation manual for pharmacists, 5107
emergency feeding, 17023
emergency lodging, 12741
emergency mass feeding, basic course, 17028
emergency welfare registration and inquiry, manual, 17024
fallout shelter analysts, national directory, 14289
Federal buildings, guide for facility self-protection, 5094
Federal civil defense guide, 1745–46, 3963–64, 5509, 6954–57, 9983–86, 12739–740, 15619–620, 17020–22
Federal contributions available to State and local governments, 11491
Federal stockpile inventory, report, 2640
Federal surplus personal property acquisition, 9027
FG series, 289–290, 6958, 12741–742, 14289, 15621–622, 17023–26
handbook for emergencies, 9987
health mobilization training literature, available list, 7996
if disaster strikes and there is no doctor, medical self-help training, 5109
industrial civil defense workbook, 1st steps to company survival, 290, 17025
industrial defense planning manual, iron and steel industry, 1770
industrial management, business and industrial executives special instructions, 17026
industrial mutual aid associations for civil defense, handbook on how to organize, 12742
industrial, protection of vital records, 15622
industrial seminars, handbook on how to plan, organize, etc., 289
medical self-help promotional materials, list, 2532
medical stockpile managed by PHS, achieving greater utilization, GAO report, 6001
motion picture catalog, 17029
national and State, policy resolutions of AFL–CIO, change, 5512
nuclear weapons, defense against, USSR study, 2173
preparedness in electric power industry, 11855
professional development services to aid in providing fallout shelters, 14290
program planning and development, self-teaching materials, 15625
radioactive fallout on farm, 33
radiological defense, planning and operations guide, student manual, 11493
realistic approach, school administrators handbook, 11492
schools built with fallout shelter, 5515
schools, current status with guidelines for action, 12743
Civilian defense—Continued
State salary ranges, 836
State salary ranges of positions in emergency planning, 10657
student manual SM series, 8386, 11493, 12745, 15625, 17030–31
successful meetings that move to inform, stimulate, etc., guide, 8383
surplus property utilization—
hearings, 15972
report, 17346
Civilian employees, *see* Defense Department.
Civilian workers, *see* Government officials and employees.
Civilians:
Air Force careers, from quadrangle to Pentagon, 6800
American, who are fighting shirtsleeves war in Vietnam, 17745
civilian personnel pamphlets, 6828–29, 11394
DSA career program for supply management, 8806
Cladocera, *see* Water fleas.
Clague, Ewan, technological change and employment, 7676
Claiborne County, Tenn., geology and mineral deposits of Powell River area, 13400
Claims:
admiralty, settlement, amend law, report, 1912
Census Bureau employees, arising out of taking 1960 decennial census, Secretary of Commerce to settle, report, 12953
collection of claims of U.S., avoid unnecessary litigation—
hearing, 11670
law, 12633
reports, 10156, 13128
congressional reference cases, reporting, amend U.S. code—
damages to property, etc., proposed supplemental appropriations to pay, 7069, 8690, 17172
law, 17147
report, 16155
disposition by VA regional offices, 11687
District of Columbia, escheat cases, settlement by commissioners, remove dollar limit on authority, report, 15871
establish statute of limitations for certain actions brought by Government—
hearing, 11670
law, 12830
reports, 10157, 16087
Government, permit recovery from civil service retirement fund—
hearing, 5822
report, 1821
Hoopa Valley Indians, rights to share income from resources of unallotted lands, 12883
international claims settlement act of 1949, amend—
hearing, 17377
report, 17290
land scrip rights, etc., satisfaction, amend act, hearings, 13044
Ryukyu Islands, inhabitants, payment, law, 398
tort, arising in foreign countries, administrative settlement by VA, law, 402
tort claims act, amend to authorize increased agency consideration—
hearing, 11670
law, 12831
reports, 10155, 16086
treble damage, income tax, treatment of payments under antitrust laws, staff study, 535
United States nationals against Chinese Communist regime, determination—
hearing, 17377
report, 17290
United States nationals against Cuba, text of act, regulations, etc., 4434

Claims—Continued
veterans, treble-damage action, extend to direct loan and insured loan cases—
law, 17119
reports, 10129, 16142
war claims act, administration, investigation—
extension, report, 10295
report, 5780
see also Unemployment insurance.
Clain-Stefanelli, Elvira E.:
Italian coin engravers since 1800, 2465
numismatics, an ancient science, 5039
Clam chowder, cybernation, and collective bargaining (remarks), 5036
Clamps:
calibrated, facilitates pressure application, 6385
cylindrical claw, has quick release feature, 11007
fixed vacuum plates for machining styrofoam, 12323
lifting, positively grips structural shapes, 10989
resilient, holds fuel cell stack through thermal cycle, 4870
Clams:
certified shippers, list, 2742
commercial, North American Pacific Coast, 10525
North Pacific, sanitation, joint seminar, proceedings, 13984
what you should know about them, 2545
Clapp, Norman M., remarks, Feb. 15, 1966, 8011
Clapp, Raymond F., drug purchase problems and policies, 11321
Clarinda, Iowa, airport, permit leasing of portion of property, hearing, 17382
Clark, Charles B., papers on weather radar, atmospheric turbulence, sferics, and data processing, 1536
Clark, Daniel C., airborne simulator conceptual design report, 16591
Clark, George, problems in aerial application, comparison of effects of dieldrin poisoning in cold-adapted and room-temperature mammals, 11447
Clark, Joseph S., 18-nation disarmament conference, report, 11804
Clark, Kenneth B.:
address, July 18, 1966, 16854
social and economic implications of integration in public schools, 1081
Clark, Lenwood G., thermal behavior of orbiting space station, 17920
Clark, Louis E., performance of 5 ablation materials as coatings for structures in region of separated flow, 1261
Clark, Paul D., Atlantian, 2697
Clark, Samuel K., force-deflection characteristics of aircraft tires, 9413
Clarke, Garry K. C., seismic survey, northwest Greenland, 15509
Clarke, James W.:
bibliography of North American geology, 14748, 16357
geophysical abstracts, 3020
Clarke County, Miss., soil survey report, 6616
Clary, Warren P., grouping sites by soil management areas and topography, 13362
Clasen, Raymond A., reserpine therapy in cerebral edema, 3795
Class struggle, classes and class struggle in Turkey, USSR study, 14898
Classification:
act, amend to increase quota of supergrade positions—
hearing, 11678
law, 17125
reports, 10220, 15917
act of 1949, qualification standards, 17038
Classification—Continued
Army, enlisted personnel—
differential tests for ACB (army classification battery), evaluation, 1673
electronics information, tests, 5377
decimal, additions, notes and decisions, 2842
documents, information topics by clustering interest profiles for computer programming, 5323
economics, information, USSR study, 952
English texts, non-projective structures to construct machine-grammar, USSR study, 16448
Government publications available to depository libraries, 15264
Library of Congress—
additions and changes, quarterly list, 3105
class D, general and Old World history, 7682
class J, political science, 13652
class P, subclass P–PM supplement, index to languages and dialects, 4740
class P, subclass PB–PH, modern European languages, books, etc., 6276
class P, subclass PJ–PM, Asia, Africa, Oceania, America, languages and literatures, 4741
class P, subclass PT, German literature, 10891
class S, agriculture, etc., 1100
class V, naval science, 6277
Navy, enlisted personnel manual, 7964
Navy officer, manual, cross reference index, 5063
patent systems, development and use, 9606
position, basic training course—
administration and operations, 306
classification process, 305
fundamentals and Federal plan, 304
Soviet, universal classification table, seme principal divisions, 14878
universal decimal classification system, USSR study, 12092
see also Government officials and employees—*also* names of substances, objects, etc., classified—*also* subjects.
Classification bulletins, Patent Office, 6559–60, 9604, 11166
Classification tests, *see* Aptitude tests.
Classified matter, *see* Confidential material.
Classroom training cards, *see* Training cards.
Clastic sedimentation in Deep Springs Valley, Calif., 817
Clay, Eleanor W.:
bimonthly list of publications and motion pictures, 2706
list of available publications of Agriculture Department, 6054
Clay:
census of mineral industries, 1963, industry statistics, 12702
construction products, current industrial reports, 2817, 5474, 12710
1965 summary, 17006
performance of soils under tire loads, tests through Nov. 1962, 8865
products—
census of manufactures, 1963, manufacturing plants, location 11455
commodity transportation survey, shipper series, 217
soft clay soils, tests with CH–47A Chinook helicopter, 4337
structural clay products, census of manufactures, 1963, industry report, 3897
Clayton, L. Yvonne, homemakers use of and opinions about selected fruits and fruit products, 15449
Clayton act, *see* Monopolies.
Clean air act, *see* Air pollution.

Clean rivers restoration act, *see* Water pollution.
Clean room and work station requirements, controlled environment, Federal standard, 16289
Cleaning:
  contract services, industry wage survey, 12220
  eggs, bacteriological, chemical, and physical requirements, 6759
  equipment and supplies, Federal item identification guides for supply cataloging, supplements, 2937
  plants, census of business, 1963, laundries, cleaning plants, related services, 203
  products, census of manufactures, 1963, industry report, 5442
  services, custodial, military standards, 11852
  ultrasonic, restores depth-type filters, 13735
  see also Dry cleaning.
Cleaning compounds, aggressive formulations for use on corroded equipment, surface chemical methods, 1376
Clearinghouse for Federal Scientific and Technical Information:
  fast announcement (periodical), 2913
  industrial referral service, 1764
  press releases, 3350
  scientific documentation sponsored by NSF, price list, 7912
  special announcements concerning research reports, 3529
Clearinghouse for Research in Child Life, 12734
Clearwater National Forest, history, 7450
Cleft palate, research explores, 16799
Clemens, George W., jr., feasibility study of communications satellite for deep-space monitoring, 2435
Clement, Wendell E., effect of different levels of promotional expenditures on sales of fluid milk, 4280
Clements, Sam D., minimal brain dysfunction in children, terminology and identification, 11109
Cleomedes, LAC 44, lunar chart, 6802
Clergy:
  hospital ministry, theological roots (papers), 16895
  Protestant clergy, Rabbis, Roman Catholic priests, employment outlook, 9222
  social security, brief explanation, 1474
  Soviet clergyman attacks U.S. action in Dominican Republic, 14904
Clerical workers, *see* Clerks.
Clerks:
  examination announcement, 6972
  office clerical, pay, survey, Feb.–Mar. 1965, 2303
  see also Disbursing clerks—Shipping clerks.
Cleveland, Ohio:
  area wage survey, 2299
  commodity transportation survey, production area series, 8344
  economic level, changes, 1960–65, in 9 neighborhoods, 15591
  principal electric facilities, map, 7375
Cliff, Edward P., forest patterns, beauty and use, 1599
Cliff, Rodger A.:
  power switching in digital systems, 13814
  stored program computer for small scientific spacecraft, 17917
Clifton, N.J.:
  area wage survey, 16530
  commodity transportation survey, production area series, 8342
Climate:
  and cardiovascular pathology, USSR study, 4622
  climatic factors affecting racial variation in slash pine, 16339
Climate—Continued
  climatic maps of United States, 1905, 4345, 5893–97, 8866
    selected compilation, 7342
  climatography, California, 13299
  climatography of United States, climatic summaries of resort areas, 5898–99, 10447, 11900, 13299
  climatological data—
    by States, etc., 2751
    local, 3163
    national summary, 2752
  climatology of noctilucent clouds according to observations performed, during IGY, 2445
  Colorado Rockies high mountain pass, 4475
  Hot Springs National Park, 11900
  is it possible to influence, USSR study, 14707
  modification, report, 16742
  monthly data for world, 3210
  Navy marine atlas, Antarctic, 9600
Climatic atlases, *see* Atlases.
Climatography, *see* Climate.
Climatology, *see* Climate.
Clinch-River and Valley, economic and resource development, summary, 2603
Cline, Garner J., immigration and nationality act with amendments, etc., 10254
Clinical Center, National Institutes of Health, current clinical studies and patient referral procedures, 18001
Clinical medicine, *see* Medicine.
Clinical medicine (USSR periodical):
  translations, 14827
Clinical pharmacology, *see* Pharmacology.
Clinical psychologist, *see* Psychologists.
Clinical Spinal Cord Injury Conference, 1964, proceedings, 6687
Clinics:
  ambulatory polyclinical care, development in RSFSR, 7551
  outpatient psychiatric—
    United States, facilities 1964, list, 13974
    United States, staff and man-hours data, 12981
  problems of allergy in clinical practice, USSR study, 9100
  Veterans Administration to contract for scarce medical specialist services, report, 10126
Clinton, Iowa, bridge across Mississippi River, revive act, etc., law, 12825
Clinton, N.C., District Court, eastern district, term to be held, law, 421
Clinton County, Pa., soil survey report, 16835
Clinton Engines Corp., President's E award for export excellence (remarks), 10035
Clock-pulse generators, multiphase, uses simplified circuitry, 1228
Clocks and watches:
  census of manufactures, industry report, 3904
  commodity transportation survey, shipper series, 5453
  dutiable status of imports from insular possesions, amend tariff schedules, hearing, 13208
  transistorized digital clock with serial binary-coded readout, 16765
  watch movements, Tariff Commission report, 6669
  watch repairmen, employment outlook, 9289
  watches, watch movements, etc., Tariff Commission report, 11290
Close, Kathryn, children, interdisciplinary journal for professions serving children, 2747
Close, Richard T., numerical analysis of Pierce-type electron guns, 16760
Close air support, 4121–22
Closed-basin investigations (series), 9018
Closed drainage of chest, programed course for nurses, 9623

Closed loop operation eliminates need for auxiliary gas in high pressure pumping station, 16631
Closing the gap in social work manpower, 6046
Clostridium botulinum, *see* Botulism.
Closures:
for containers, current industrial reports, 2817, 11463
movable or removable, classification bulletin, 11166
single service, for milk and milk products, fabrication, sanitation standards guide, 15278
Cloth, *see* Textiles—*also* names of textiles.
Clothes moths, protecting woolens against, 9819
Clothing:
and individual equipment, Federal item identification guides for supply cataloging, supplements, 2939
apparel and related products, census of manufactures, 1963, manufacturing plants, location, 12698
apparel industry, employment outlook, 9293
apparel survey, 1964, current industrial reports, 5473
children's, in Italy, foreign market survey, 1692
cold water tests of USAF anti-exposure suits, 76
men's and boys' apparel—
census of manufactures, 1963, industry report, 6893
retailing, bibliography, 2557
men's apparel, current industrial reports, 2817
miscellaneous apparel and accessories, census of manufactures, 1963, industry report, 6895
programs, pattern alteration, guide for leaders, 1586
protective, permeability to insecticidal phosphoric-acid derivatives, East German study, 1037
quality assurance information handbook, 16207
repairs, 39
self-contained clothing system provides protection against hazardous environments, 9492
soldiers', individual care and use, field manual, 3821
textile & apparel technology program, 1301
women's apparel, current industrial reports, 2817
young people's use and appraisal of natural and competing fibers in wearing apparel, 14144
Clothing stores, *see* Stores.
Cloud modification, *see* Weather control.
Cloud seeding, *see* Weather control.
Clouds:
cloud system with circulation role of Kutta-Joukowski force, 12563
convective, artificial modification, results of radar observations for evaluating success, USSR study, 10784
data from meteorological satellites, interpretation and use, USSR study, 2197
data obtained with meteorological satellites, aspects of interpretation and use, USSR study, 911
high-level mesovortex, characteristics, USSR study, 14875
noctilucent, climatology according to observations performed during IGY, 2445
nuclear explosion cloud development studies, 15538
numerical model for short-range forecasting of stratiform cloud cover, USSR study, 14795
supercooled small-drop clouds, calculation of processes caused by introduction of ice crystals in, USSR study, 1067–
Clouds—Continued
television photography, meteorological satellite data, catalogue—
ESSA I, 14580
TIROS VII, 1535, 8867
TIROS VIII, 5900, 14579
TIROS IX, 11902
warm, statistical theory of microphysical mechanisms of formation of precipitation, Communist China study, 6199
Clough, Gerald W., embankment pore pressures during construction, 10446
Clough, Nestor, dimple, etc., characteristics in aluminum, columbium, and steel plates under hypervelocity impact, 12350
Clover, *see* White clover.
Clover mites, control, 1588
Clubs, *see* 4-H clubs.
Clutches (machinery):
diaphragm spring gives clutch over-center toggle effect, 15094
Clutter, Robert I, Fishery-Oceanography Center, La Jolla, Calif., 2038
Clyma, Wayne, water resources in high plains of Texas and New Mexico, 5266
CM series, 2049, 5968, 8946, 10545
CMC, *see* Sodium carboxymethylcellulose.
Coal:
analyses of tipple and delivered samples, 12250
anthracite, Pennsylvania—
distribution, 1964–65 coal year, 2317
mineral industry surveys, weekly, 3318
anthracite, solid specimens, electrical resistivity, method for determining, 10926
bituminous and lignite, minerals yearbook chapter, 2316
carbonization, light oils from fluidized carbonization, 6312
chemicals, mineral industry survey—
monthly, 2757
1965 advance data, 14998
chemicals, minerals yearbook chapter, 1106
coking-coal deposits of western United States, 10633
combustion, atmospheric emission, inventory guide, 13961
direct determination of oxygen in coal, 9375
distribution of minor elements in coals of Appalachian region, 13393
forms of sulfur in U.S. coals, 15010
foreign trade reports, 3641
handling, Air Force manual, 12619
hydraulic transport, 7712
industry, Boulder-Weld coalfield, analysis, 6318
international trade, monthly inventory, 3075
its future and conversion into other fuels (remarks), 15635
Kukpowruk River area, Arctic northwestern Alaska, sampling and coking studies, 12240
Livingston field resources, Gallatin and Park Counties, Mont., 12025
Mines Bureau, 1964, research and technologic work, 1112
Mines Bureau program, 1965, review, 16559
minor elements in American coals (series), 13393
Mongolia, industry, USSR study, 14865
new look at coal (remarks), 9366
Pittsburgh-bed, Lurgi gasifier test, 4799
Pocahontas and Pittsburgh seam, rates of adsorption of methane, 9373
powdered, coal-water slurries, flow properties, 2352
preparation characteristics—
Barbour County, W. Va., 4792
Buchanan County, Va., 6325
Webster County, W. Va., 15026
preparation, decaking in fluid bed, 10931

Coal—Continued
products—
census of manufactures, 1963, manufacturing plants, location, 12700
commodity transportation survey, shipper series, 214
reaction in argon and argon-hydrogen plasmas, 15030
report, weekly, 3697
research organizations, worldwide activities and publications, 7686
reserves, Kermit and Varney area, Ky., 9019
resources—
Beluga-Yentna region, Alaska, 14746
Fabius-Flat Rock area, Jackson County, Ala., 13680
solvent processing to produce de-ashed product, 312
steam as coal dewatering aid during vacuum filtration, pilot plant study, 4798
subbituminous, influence of continuous carbonization method, etc., on pyrolysis products, 16583
sulfur reduction in Appalachian region coals by stage crushing, survey, 6288
Coal dust:
and methane mixtures, equivalences at lower quenching limits of flames, 9381
control in mines, theory and practice, USSR study, 12143
explosion, thermal phenomena during ignition of heated dispersion, 13695
incendivity of explosives to, improved method for evaluating, 16573
Coal lands:
railroad leasing limitations, repeal—
hearing, 13219
report, 13167
Coal mines and mining:
acid water, application of saline water conversion processes, 16374
anthracite, census of mineral industries, 1963, industry statistics, 6916
anthracite mining industry, 1930–66, wage chronology, 16535
bituminous coal mines, 1933–66, 1091
chemical and physical properties of spoil banks in eastern Kentucky coal fields, 5990
continuous borer, use in mining pitching anthracite beds, 9380
hydraulic mining research, steeply pitching coalbed, 1159
injuries and employment, monthly report, 2753
injury experience, analysis of safety factors, etc., 4756
longwall mining, challenge, 8313
Mines Bureau program, 1965, review, 16559
Pennsylvania anthracite mine, longwall mining, use of shearer loader, 7713
refuse, ignition and control of burning, 9379
stoppings for ventilating, 4793
strip and surface mining study, report, 16379
strip-mine areas, secondary backfilling, 7717
strip-mine reclamation, digest, 10614
underground bituminous mines, performance characteristics of common jute line brattice, 6317
USSR, dust control, theory and practice, 12143
see also Coal lands—Mine accidents—Mine drainage—Mine ventilation.
Coal Research Office:
annual report, 12761
appropriations, 1967, hearings, 7113
press releases, 3351
research and development report, 312
Coalition governments:
anatomy of Communist takeovers, study, 14497
coalition governments and Communist Party in Soviet Union and Eastern European countries, study, 8783
Coast and Geodetic Survey:
aeronautical charts and related publications, catalog, 6980
engineering responsibilities, 11502
magnetograms MHV series, 5525–28, 10003
members serving with Air Force, provide same status as those serving in Army and Navy, hearings, 8674
nautical chart catalog—
Atlantic and Gulf Coasts, Puerto Rico, and Virgin Islands, 6988
Pacific Coast, Hawaii, Guam and Samoa Islands, 6989
press releases, 3352
products and services, 15637
products and services as related to economic activity in U.S. continental shelf regions, 10002
program in Alaska, Mar. 27-Dec. 31, 1964, operational phases, 12763
publications, 314, 3991–93, 5529, 6981–83, 12763, 15637
research paper, 12762
seismic sea-wave warning (posters), 5524, 5536
technical bulletins, 315, 3994, 10004, 11504, 14314, 17050
uniformed services, joint travel regulations, 1962
Coast Guard:
appropriations for vessels, etc., authorization, 1967—
hearings, 5700, 10332
law, 7045
reports, 5675, 7187
cargo and miscellaneous vessels, rules and regulations, 10009
Coast Guard reservist, 2754
communications manual, 3997
court martial cases, report, 10381
electrical equipment for merchant ships, approved list, 11507
examination of foreign passenger vessels—
hearing, 13039
report, 12919
exchange manual, 12766
films, catalog, 6990
high-endurance vessels, western area, examining planned replacement, etc., GAO report, 6016
laws, improve and clarify—
hearing, 1932
law, 11553
reports, 552, 10146
members, savings through use of FHA-owned houses as quarters in St. Petersburg and Miami, Fla., areas, GAO report, 2085
members, transfers between permanent duty stations, review of administration, GAO report, 12001
miscellaneous legislation, hearings, 8674
nomination of—
Helmer, Frank V., hearings, 4215
Tighe, Charles, hearings, 4215
oceanographic report, 14317
officers and cadets, register, 5538, 6992
ordnance manual, 8408
publications, price list, 17996
roles and missions (remarks), 16884
transfer—
hearings, 8774, 10246, 10346, 11809, 13040, 13212
message from the President, 5617
reports, 11634, 12973, 16158, 17291
see also Pay, allowances, etc.
Coast Guard Academy, New London:
cadet profile, 17052
information for candidates, 8410
information leaflet, 5539

239-221—67—No. 863——13

Coast Guard Auxiliary:
manual, 318
membership invitation, 1765
public education and membership training publications, bibliography, 12768
Coast Guard Reserve, register of officers and cadets, 6992
Coast Guard stations:
construction of shore and offshore establishments, appropriation, authorization, 1967—
hearings, 5700, 10332
law, 7045
reports, 5675, 7187
Coast pilots:
United States coast pilot, 316
supplements, 5531–35, 6985–86
Coastal Engineering Research Center:
reprint R (series), 8856–58
technical memorandum, 13291
Coastal Plain, *see* Atlantic States.
Coastal warning facilities charts:
Canadian border to Eureka, Calif. and Alaska, 11314
eastern Florida, 7339
Eastport, Me. to Montauk Point, N.Y., 15418
Eureka to Point Conception, Calif., 11315
Hawaiian Islands, 12560
Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 12561
Montauk Point, N.Y. to Manasquan, N.J., 15419
Morgan City, La., to Apalachicola, Fla., 7340
Point Conception, Calif., to Mexican border, 9764
Puerto Rico and Virgin Islands, 12562
Coasts:
amend coastwise laws, etc., hearings, 13204
coastal community, model hurricane plan, 14075
Coated surfaces, *see* Surfaces.
Coates, Edward M., jr., stagnation and static pressures on nose-mounted 15° conical probe with various forebody configurations, 15155
Coates, Neil H., film coefficients of heat transfer for helium, etc., 17865
Coating materials:
ablating materials for structures in region of separated flow, performance, 1261
anodization process produces opaque reflective coatings on aluminum, 1212
barrier coatings on graphite molds for casting titanium, investigation, 6538
chromium oxide coatings improve thermal emissivity of alumina, 11020
coating permits use of strain gage in water and liquid hydrogen, 11001
coatings control temperature of structures in space flight, 1213
diffusion coatings of metals, USSR study, 4644
do petroleum based protective coatings add fuel value to slash? 10572
emittance and solar absorptance, between 300° and 575°, 7889
epoxy-coated containers, opened by wire band, 9481
flexible protective coatings made from silicon-nitrogen materials, 4864
fluoride coatings make effective lubricants in molten sodium environment, 4842
high temperature protective coatings for molybdenum and tungsten, 1295
nickel/tin coating protects threaded fasteners in corrosive environment, 2402
opaque coatings, use to reduce turn-off time of optically driven switch, 7795
oxidation resistant, on columbium alloy sheet, study, 7828
pigmented coating resists thermal shock, 1229
Coating materials—Continued
plasma-sprayed alumina coatings on stainless steel, shear bond strength analysis, 1275
protective coating withstands high temperatures in oxidizing atmosphere, 6370
protective coatings for magnesium alloys, 12432
refractory coating protects intricate graphite elements from high-temperature hydrogen, 9452
soluble undercoating facilitates removal of foamed-in-place insulation, 1220
submarine topside, for application in cold damp weather, 1384
teflon, wear durability on elastomeric vulcanizates, improvement, 1378
thin film protective coatings, 1296
uniform vacuum ultraviolet reflecting coatings on large surfaces, 7873
see also Ceramics—Primers (paint)—Surfacing materials.
Coats, women's and misses', industry wage survey, 13619
Coaxial plasma gun, experimental and theoretical performance, 12351
Cobalt:
alloy liners for small arms barrels, radiographic and visual soundness requirements, military standard, 11853
cobalt-base alloy (l–605), cold reduction as means of reducing embrittlement, 13832
mineral industry survey, monthly, 2755
minerals yearbook chapter, 15001
tungsten alloys, vapor deposition, 2355
Cobalt isotopes:
Co-60—
gamma radiation, biologic effectiveness as compared to 138–Mev protons, 94
irradiated rabbits, isolated ileum, sodium transport, 3792
radiation unit at Boris Kidric Institute, Yugoslavia, irradiation possibilities, 951
SAM high level irradiation facility, 1623
340–Cule, as gamma radiation source, Yugoslav study, 961
use in pasteurization of fishery products, 4407
Cobb, Viola J., testimony, hearing, 8785
COBOL, *see* Electronic computers.
Cocco, Joseph, earnings and weekly hours of factory workers, 4736
Coccoidea, *see* Scale insects.
Cochiti Dam, Rio Grande, N. Mex., outlet works, hydraulic model investigation, 4338
Cochlea, *see* Ear.
Cochran, Reeves P., heating tests on lightweight external insulation system for liquid-hydrogen tanks of boost vehicles, 7838
Cochran, Thomas H., effects of subcooling and gravity level on boiling in discrete bubble region, 16651
Cochrane, Rexmond C., measure for progress, 13858
Cockrum, James L., preparation of occupation instructors, 10430
Coconut oil:
duties on importation—
alteration, report, 5771
suspension, law, 8464
Code of Federal regulations, 2756, 5942–51, 7383–7415, 8904–21, 10483–508, 11930–943
general provisions, 14636
index, 1966, 11930
list of sections affected, 1949–63, 7383
see also for titles, chapters, etc., of the code printed separately, subject involved.
Codes:
asymmetrical, USSR contribution to theory, 989
coding techniques for data transmission systems, USSR articles, 4637

Codes—Continued
freight descriptions and suffixes, Army regulation, 8232
input and output codes, supply cataloging manual, 4244
item management coding manual, changes, 5846–47
routing identifier codes, MILSTRIP, 11854
see also Codes of law—Error-correcting codes—Machine records codes—*also* headings beginning Code—*also* subjects.
Codes of law:
citations, how to find, 521
District of Columbia, 1961 edition, supplement, 4139
statutes of United States, revision and codification, study—
authorization, report, 4197
report, 5783
United States, 1964 edition, supplement, 8445
United States revised statutes, amend with respect to lands granted to States—
law, 11579
report, 11746
United States, title 5, enact—
law, 15733
report, 13157
see also subjects.
Codfish, U.S. fishery in northwest Atlantic, 747
Coe, Harold H.:
horizontal multitube heat exchanger with steam condensing inside tubes, 17928
summary of thermophysical properties of potassium, 4904
Coefficients:
buckling, for sandwich cylinders of finite length under uniform external lateral pressure, 2059
drag, of small spherical particles, shock tube determination, 7739
extinction, determination in scattering media, 16407
Fourier series, sampled data and switching logic, 9536
quadrature, utilizing symbolic manipulation language FORMAC, computer generation, 13812
regression analysis, non-linear, of periods defined by irregular observations, 9434
resistance, for structural plate corrugated pipe, hydraulic model investigation, 8864
Seebeck, five-figure table of functions for use in determining, 12438
viscosity and thermal conductivity, of dilute argon between 100 and 2000° K, 13865
X-ray mass attenuation, cooperative action on determination, 5017
Coelenterata, index-catalogue, 8134
Coeur d'Alene district, Idaho, geology, 819
Coffee:
foreign agriculture circulars, 2987
green coffee inventories and roastings, 3028
international agreement, annual report, 5712
Cogle, B. A., transfer of land title in Marengo County, Ala., 12864, 14365, 16013
Cohan, S., XV–9A hot cycle research aircraft program, summary report, 14232
Cohany, Harry P., directory of national and international labor unions in U.S., 11217
Cohee, George, changes in stratigraphic nomenclature by Geological Survey, 4514, 17716
Cohen, Abraham E., relief, 5735, 8512, 11537
Cohen, Philip, water resources of Humboldt River Valley near Winnemucca, Nev., 2106, 9023
Cohen, Wilbur J.:
family planning, one aspect of freedom to choose, 13418
social policy for 1970's, 7498
Cohn, Edward A., ownership changes made by bakery and dairy products companies, 14539
Coiled sheet metal strip opens into tubular configuration, 4846
Coils:
auxiliary, controls temperature of RF induction heater, 6393
5-cent regular stamp (poster), 13925
magnetic, single turn, behavior under dynamic load condition, 4945
see also Electric coils.
Coins:
domestic and foreign manufactured by U.S. mints, 17870
Italian coin engravers, 2465
situation—
hearing, 10245
report, 8630
see also Numismatics.
Coke:
coking, Rumanian inventions, 10805
formcoke for blast furnace use, evaluation, 4797
mechanical strength at elevated temperatures, 13696
mineral industry survey—
monthly, 2757
1965 advance data, 14998
minerals yearbook chapter, 1106
producers in U.S., 15002
see also Coal.
Coker, Joseph D.:
papers—
Nov. 1964, 658
Dec. 1964, 657
Sept. 9, 1965, 660
Colaluca, Mario A., heat-rejection characteristics of space radiator panels utilizing shared fins, 15189
Colberg, Marshall R., oyster-based economy of Franklin County, Fla., 6585
Colburn, Evelyn W.:
knitting mills, 3887
leather gloves, luggage, and miscellaneous leather goods, 5443
men's and boys' apparel, 6893
miscellaneous apparel and accessories, 6895
tanning, footwear, industrial leather goods, 3896
women's and children's underwear, headwear, children's outerwear, 8330
women's and misses' outerwear, 6894
Cold:
avoidance response of rats under ambient and low temperatures, effects of alcohol and drugs, 5315
calorigenic response of rabbits to intravenous infusions of epinephrine and norepinephrine, 9858
cold-stressed mice, mortality rate challenged with viruses by different routes, 79
environmental temperature, influence on systemic effects of alcohol alone and in combination with other drugs, 3781
exposure, effects upon action of therapeutic drugs, 9860
exposure, USAF anti-exposure suits, cold water tests, 76
low temperature and metabolic aspects of tolerance to endotoxin, 5312
precooling of peripheral arterial blood in cold- and warm-adapted rabbits, 3782
stress, parameters, effects, mitigation, 82
tolerance, assessing responses to whole body exposure, 77

Cold (weather):
cold water tests of USAF anti-exposure suits, 76
nutritional requirements for survival in cold and at altitude, symposia, proceedings, 14185
Cold-air performance evaluation of scale model oxidizer pump-driven turbine for hydrogen-oxygen rocket engine, 7881
Cold-cathode gages, *see* Ionization gages.
Cold Region Research and Engineering Laboratory:
research reports, 116, 1635–37, 3815–16, 5344, 6830–33, 8233–43, 9887–89, 11395–396, 12649, 14210, 15505–510, 16956
science and engineering, engineering, 1639
science and engineering, environment, 8249
special reports, 117, 1638, 3817, 8244, 9890, 11397, 14211
technical reports, 118–119, 3818–20, 8245–48, 9891–92, 12650, 14212, 16957–958
translations, 11891
Cold Springs National Wildlife Refuge, general information, 2043
Cold storage:
regional holdings, summary, 8093
report (periodical), 2758
Cold war, *see* International relations.
Cold war veterans readjustment assistance act, *see* Veterans.
Cole, Alex. B., hardwood log grading at circular sawmills, 5975
Cole, Henry A., jr., fundamental damping law for fuel sloshing, 6429
Cole, P. T., magnetic-tape static friction testing device, 9526
Cole, Walter E., effect of pine butterfly defoliation on ponderosa pine in southern Idaho, 16325
Coleman, Harold J., identification of sulphur compounds in petroleum, etc., 12257
Coleman, James R., projected values of cesium-137 body burdens in Anaktuvuk Pass Eskimos for summer of 1965, based on findings in caribou muscle, 5115
Coleman, James S., equality of educational opportunity, 14551
Coleman, Ralph E., infrared spectroscopy studies of xanthategalena system, 15021
Colemanite, disposal from supplemental stockpile, hearing, 570
Coleoptera, *see* Beetles.
Coles, Willard D., superconducting magnetic bottle for plasma physics experiments, 15186
Colglazier, Robert W., jr., advance to grade of lieutenant general, authorizing, 17072, 17182
Collecting of accounts:
collection of claims of U.S., avoid unnecessary litigation—
hearing, 11670
law, 12833
reports, 10156, 13128
Collective bargaining:
clam chowder, cybernation (remarks), 5036
impact of automation (remarks), 7933
impact of cybernation (remarks), 6494
major agreements—
arbitration procedures, 10858
deferred wage increase and escalator clauses, 7664
management rights and union-management cooperation, 9206
Collectives:
kolkhozes—
Council of Ministers USSR grants direct banking credit to, 6140
key personnel, raising qualifications, USSR decree, 6214
College, Alaska, phase variation of 16 kc/s signals from GBR, 1297
College Magnetic Observatory, magnetograms and hourly values, 10003
College students, *see* Students.
College-work study program, *see* Colleges and universities.
Colleges and universities:
accredited higher institutions, 1964, 632
business management, 8837
business management, chief business officers, job characteristics, etc., 17619
business management guide, 1977
campus landscape, 17620
computer center in higher educational institutions, USSR study, 6136
correspondence courses offered through USAFI, DOD pamphlet, 15502
curricula in oceanography, 1965–66, 17650
debate topic, 1965–66, selected excerpts and references, 466
degrees conferred, 1964–65, summary, 16242
developing institutions, assistance, extend—
hearings, 13227, 17374
reports, 8629, 16167, 17349
directory, higher education, 10420
District of Columbia, plan 2 public colleges, authorization, hearings, 10337
endowment, status and management, 7300
engineering degrees (1962–63) and enrollments (fall 1963), 1976
engineering, enrollments, and degrees, 10418
English major undergraduate requirements, curriculum patterns, 637
enrollment, advanced degrees, fall 1963, final report, 7304
enrollment and facilities of new institutions opening between 1961 and 1965, 1974
enrollment, 1965, fall, 5878
enrollment, projections to 1985, United States, 12725
facilities—
construction and rehabilitation on campuses, 14556
financial assistance for construction regulations, amended, 11873
survey, 636, 1974
facilities act of 1963, extend, etc.—
hearings, 13227, 17374
reports, 8629, 16167, 17349
faculty and other professional staff in institutions of higher education, 7306
faculty consulting, policies, practices, and problems, 9575
Federal research programs, conflicts with goals for higher education—
academic communities, etc., responses to inquiry, print additional copies, reports, 10200, 10206, 17473
hearings, print additional copies, report, 10207
fortifying role in scientific research and training of cadres, USSR study, 10720
get ready for college and go, 4 programs of Federal assistance in financing education, 5874
Government supported research, administration, 11449
graduate deans, 1872–1965, directory, 11869
graduate enrollment and Ph.D. output in scientific fields at 100 leading institutions, 1963–64 to 1964–65 trends, 13992
graduates, liberal arts and science, prospective occupations, guide, 17630
grants for international studies and research, etc.—
hearings, 10238, 16193
reports, 10161, 17528
print additional copies, report, 13006
higher education act of 1965—
fierce commitment, 4305
guaranteed student loans, challenge and promise, 7311
law, 430

Colleges and universities—Continued
higher education act of 1965—Continued
outlined by title, 645
prospective teacher graduate fellowships and programs, 1966–67, 11880
questions and answers, 7312
section by section analysis, 646
higher education, day of opportunity (address), 7313
higher educational reforms in Republic of Korea, 4306
higher specialized education, improve training of specialists and perfecting leadership, USSR study, 16470
Hungary, development of chair of physiology over past 20 years, 10779
integration and academic quality (address), 7314–15
laboratories, USSR educator urges better utilization, 16420
Ministry of Higher and Secondary Specialized Education, USSR, recent orders, 7566
NASA University Program Review Conference, proceedings, 1197
national defense education act—
institutes under title 11, preparing proposals, manual, 5877
student loan program, college-work-study program and list of participating institutions, 1965–66, 7316
Negro, directory, 6250
new dimensions in higher education (series), 4313, 13277
NIH obligations to institutions of higher education, 12477–478
physical facilities, inventory, 636
placement officers, employment outlook, 9225
psychiatric-mental health nursing, institutions offering trainee stipends, 11113
public college of arts and sciences, etc., establish in D.C.—
hearings, 17370
reports, 17488
public 2-year colleges, procedures for establishment, 13280
residence and migration of college students, fall 1963, State and regional data, 8851
sciences, higher education in U.S., report, 1867
scientific research urgently needed to improve university instruction, Rumania, 9136
sea grant colleges and program act—
hearings, 11825, 14431
reports, 15863, 16081
second-level degrees conferred by U.S. institutions of higher education, 1963–64, number and kinds, 11877
selective service, college qualification test, bulletin of information, 8017, 15322
small college, pillar of diversity (address), 8853
State land-grant, Extension Service review (periodical), 2902
State legislation relating to, 17626
student services administration in higher education, 10431
students, guaranteed loans, State and private nonprofit agency programs, 17622
Taiwan, 10424
technological centers, development (address), 10022
unfunded annuities, tax treatment, report, 17562
USSR—
atheist courses needed, 13553
changes in Soviet higher education proposed, 17781
higher educational institutions, criticism of rules for admission, 6186
responsibility and rights of higher school, 7579
rights granted to institutions of higher learning, suggested expansion, 14924
Colleges and universities—Continued
Vocational Rehabilitation Administration research fellowship program, description of program and procedures for applying for predoctoral, postdoctoral, special fellowships, 1530
Volgograd higher educational institutions, reform of economics teaching, 13527
see also Junior colleges—Land-grant colleges—*also* names of colleges and universities.
Collette, Bruce B., systematic significance of breeding tubercles in fishes of family Percidae, 2467
Collings, M. R.:
effects of juniper and pinyon eradication on streamflow from Corduroy Creek basin, Ariz., 10643
throughfall for summer thunderstorms in juniper and pinyon woodland, Cibecue Ridge, Ariz., 6033
Collins, Arthur B., III, topwood volume tables for old-field slash pine plantations, 5987
Collins, J. T., airborne particle size analysis, bibliography, 12680
Collins, James F., address, Jan. 11, 1966, 4017
Collins, Joseph W., jr., training needs in correctional institutions, 12197
Collins, LeRoy:
remarks, etc.—
Nov. 11, 1965, 363
Nov. 16, 1965, 337
Jan. 20, 1966, 4030
Jan. 21, 1966, 4016
Feb. 19, 1966, 5553
Mar. 2, 1966, 5562
Mar. 24, 1966, 6995
Mar. 28, 1966, 6993
Mar. 31, 1966, 6994
Apr. 11, 1966, 8417
Apr. 16, 1966, 8416
May 6, 1966, 8436
May 10, 1966, 10014
May 14, 1966, 10012
June 6, 1966, 10013
June 16, 1966, 11523
Sept. 1, 1966, 14319
Collins, Robert L., computational method for orbital rendezvous and transfer problems, 13823
Collins, Vincent P., physiological observations on race car drivers, 15068
Collisions (electronic):
capture collisions between ions and polar molecules, semiclassical approach, 6426
Colloids:
charging submicron carbon powder for particle thrustors, 16703
suspension, simulates linear dynamic pressure profile, 11008
zero- and reduced-gravity simulation on magnetic-colloid pool-boiling system, 6452
Colner, Bernard J., aerial photography in unified information system, 11201
Colombia:
agricultural commodities, agreement, 1495
amateur alien radio operators, authorization to operate, agreement, 5169
economy, basic data, 12780
establishing business in, 11514
foreign trade regulations, 4015
mineral industry, minerals yearbook chapter, 6298
Panama boundary, study, 8063
patent, trademark, industrial design and copyright protection, 14326
trade in cotton textiles, agreement, 15367
Colon (anatomy):
cancer, 7995
Color:
cathode ray tube displays in combat information centers, 6552
color-mixture functions with white desaturant, 13661

Color—Continued
effect of exposure time on induced color, 13660
mixture functions at low luminance levels, 6281
red and green perception, at various retinal positions, effect of luminance, 13662
red-green and yellow-blue mixtures, effect of stimulus duration on perception of, 13663
sensitivity differential in purple region, 6284
Color of man, migration of population by color (series), 631, 7295
Color of the voice, USSR, 16497
Colorado:
beef-feeding operations, economies of size for specialized feedlots, 10411
census of manufactures, 1963, area statistics, 15568
climatological data, 2751
county business patterns, 1964, 226
floods, June 1965, subcommittee report, 11681
land transfer from Interior Dept. to Agriculture Dept.—
law, 11555
reports, 5672, 10308
life tables, 18013
manufacturing plants, location by county, industry, and employment size, 1963 census, 14260
medical assistance for the aged, under social security act, 11905
mineral industry, minerals yearbook chapter, 1119
nonpegmatitic beryllium occurrences, 15029
precipitation data, hourly, 3045
retrocede jurisdiction over Fort Lyon Veterans Hospital to, report, 10132
Rockies, weather and climate of high mountain pass, 4475
Shavano Soil Conservation District, sheep on irrigated pasture (colored poster), 9665
snow courses and soil moisture stations, list and location, 8029
water supply outlook and snow surveys, 3688
special report, 9713
water supply outlook, early season snow report, 2572
women, legal status, 12568
Colorado National Monument, general information, 7942
Colorado-Pacific Regional Water Commission:
create, hearings, 519, 10247
print additional copies, reports, 499, 561
Colorado River and Valley:
basin, floods, magnitude and frequency, 6038
basin, surface water quality, 6037, 12033
location of portion of river, establish, reports, 17235, 17530
lower, water resources of Salton Sea area (series), 16360
radioactive water pollution in basin, hearing, 11832
water supply outlook and snow surveys—
of drainage basin, 3688
of lower basin, 3687
watershed conditions affecting water supply, 3564
see also Lower Colorado River Basin project.
Colorado River Basin project, construct, etc., report, 14392
Colorado State University, Craig countercurrent distribution apparatus, duty-free entry, 377
Colorimetry, acid vapor determination in PPM range, 6546
Colors, *see* Color.
Columbia Basin project:
employees, relief, 5734
third powerplant, construct, operate and maintain, hearings, 1861
third powerplant, Grand Coulee Dam, construction, etc., authorize—
law, 11557
reports, 8595, 8602
Columbia River and Valley:
at the mouth project, land relinquishment—
hearing, 13018
law, 11561
reports, 8742, 10180
basin, surface water quality, 6037, 12033
Bonneville Dam, navigation channel improvement, hydraulic model investigations, 11890
fish passage reports—
Bonneville, The Dalles, McNary and Ice Harbor Dams, 667, 11888
Rock Island Dam, 17679
flood season flow near The Dalles, 3543
lower, radiological survey in Oregon, Aug. 1963–July 1964, 2537
monthly mean discharge at gaging stations and change of storage in lakes, etc., 3543
Permanent Engineering Board, administration and procedures, agreement with Canada, 2584
sablefish, distribution, abundance, and size, 4409
storage in major power reservoirs, monthly report, 3543
surface water of upper basin, records to Dec. 31, 1963, index, 2099
water supply outlook and snow surveys, 3695
Columbia River Federal Power System, financial statements, examination, GAO report, 16342
Columbia University, Pegram Nuclear Physics Laboratories, progress report, 8287
Columbium, *see* Niobium.
Columbus, Christofer, what is significance of his achievements? (remarks), 15542
Columbus, Ohio, area wage survey, metropolitan area, 4724
Colville Reservation, Confederated Tribes, Federal supervision, termination, hearings, 7151
Colwell, Robert C., economic factors in urban planning studies, 8109
Colwell, T. C., basic data on economy of Uganda, 11513
Colyar, A. B., paper, Apr. 28, 1966, 11194
Comandra blister rust, lodgepole pine, antibiotics for control, 15436
Comart Research, Ltd.:
United Kingdom—
audio-visual equipment, 174
electroplating and metal finishing equipment, 177
Combat:
Army readiness program, hearings, 11791
employment of missiles, USSR study, 903
information centers—
color cathode ray tube displays, 6552
team training research, 5066
readiness, troop instruction, USSR study, 1024
rocketeers are always in readiness, USSR study, 6158
Combat areas:
airfield, rapid construction in theater of operations, technical manual, 127
firefighting and rescue in theaters of operations, technical manual, 15515
Combat duty pay, *see* Pay, allowances, etc.
Combat vehicles, *see* Motor vehicles.
Combustion:
and explosion, USSR study, 1044
catalytic, of hydrocarbons, ionization produced, 9596

Combustion—Continued
coal, atmospheric emission, inventory guide, 13961
effects of 100% oxygen at reduced pressure on ignitibility and combustibility of materials, 3797
hydrogen-oxygen, at 14 atmospheres, magnetic control of flow of hot combustion gases, 2425
instability in solid propellant rocket motors, use of one-dimensional model for determining, 9533
noise, contribution to overall rocket exhaust jet noise, 9432
physics, USSR studies, 10716, 13500, 14958
rockets, tangential velocity effects on spinning transverse combustion instability, 9531
Combustion chamber inlet manifold separates vapor from liquid, 6378
Combustion gases, *see* Gases.
Combustors:
ethanol-jet atomization with oscillatory combustion-gas flow, 15147
n-heptane vaporization in unstable combustor with traveling transverse oscillations, analysis, 9537
rocket, simulated, acoustic decay coefficients, 9538
Commager, Henry S., why history?, 13282
Commanders digest (periodical), 6822
Commemorative medals, *see* Medals.
Commemorative stamps, *see* Postage stamps.
Commerce:
agricultural trade development and assistance act of 1954, Library of Congress project newsletter, 3148
America Week, international trade promotion programs (remarks), 4022
black spruce, Lake States, botanical and commercial range, 5985
Central America, beef export trade, 2054
Central American Common Market, 1963–64 foreign trade, 11521
commerce and foreign trade, code of Federal regulations, 10489
Communist China's trade, translations, 3597
domestic and foreign, promote by modernizing practices relating to inspection of persons, merchandise, etc.—
hearings, 10334
report, 14460
East-West trade—
Battle act report, 6631
controls and U.S. trade policies and practices (statement), 361
history and benefits for U.S. (address), 5151
East-West trade relations act of 1966, proposed legislation, analysis, 18115
economic impact of U.S. ocean ports, 14988
expanded commercial trade in developing countries (address), 14125
export expansion drive (speech), 1779
Federal Maritime Commission's role in trade (remarks), 8901
foreign agricultural trade—
by commodities, 4294, 13266
by countries—
calendar year 1965, 17618
fiscal year 1964–65, 11866
monthly, 2985
foreign commerce and navigation of U.S., 1946–63—
departmental edition, 3932
document edition, 4049
foreign-made goods sold in U.S. in competition with domestically produced goods, investigation and study, report, 17298
foreign trade—
areas, code classification and definitions, 5499
challenges and choices in U.S. trade policy (addresses), 5151
East European, translations, 3602
Commerce—Continued
foreign trade—continued
effectiveness, determining, 16478
export market research (speech), 865
FT reports, 2994–3004, 3641–50, 8365–66
Socialist countries of Europe, development during years of people's authority, 10808
United States—
Jan.–June 1965, 1772
Jan.–Sept. 1965, 4009
1958–65, 14324
1964 and 1965 preliminary, 7008
United States flag fleet, 1964, impact of Government-generated cargo, study, 454
United States trends, 7528, 10688
with Japan (remarks), 5939
foreign trade and markets, publications available, directory, 14625
foreign trade expansion (address), 332
foreign trade regulations—
Argentina, 10027
Brazil, 10030
Chile, 4008
Colombia, 4015
Cyprus, 4007
East Africa, etc., 15646
Ecuador, 12778
El Salvador, 10024
Ethiopia, 8432
Iran, 4006
Kuwait, 7010
Mexico, 15650
Portugal, 17056
Saudi Arabia, 12786, 15649
Sudan, 17057
United Arab Republic, 17055
Uruguay, 7011
foreign trade statistics—
country designation, code classification, schedule C, 6936
change, 3910
guide, 1967, 15594
hearings, 16183
U.S. districts and ports, code classification, schedule D, 3936
changes, 5457
foreign trade trends (address), 7523
hygiene in commerce and offices, ILO convention, text, etc., 17159
international commerce (periodical), 3076
international commerce, weekly, supplements, 7526–27, 12059–60
international meetings, world list, 3717
international trade, encouragement, convention with Israel, 13073
international trade in agricultural commodities, promote to combat hunger, etc., hearings, 7107, 8645
print additional copies, reports, 17278, 17544
international trade, national interest (address), 2573
interstate—
mail-order firearms in interstate commerce, report, 1924
publications, price list, 1406
interstate and foreign—
abusive and harassing telephone calls, amend communications act, hearings, 17574
regulate by preventing unfair or deceptive methods of packaging or labeling, hearings, 15980–981
interstate commerce act, amend—
hearings, 7153, 17387
report, 17302
interstate commerce acts annotated, advance bulletins, 2641
interstate taxation act—
hearings, 10253, 11669
report, 17232

Commerce—Continued
Latin American development and Western Hemisphere trade—
hearings, 455
subcommittee report, 7051
merchant marine in trade, policy and program, 4003
mission to Nigeria to spur trade, 10686
national summaries, supplements, 5886
ocean, surface effect ships, study of technological problems, report, 5561
overseas trade fairs, sales opportunities for U.S. manufacturers, 4574
Pacific Northwest forest industries, trade, 3420
publications, price list, 5099
steamship lines in foreign commerce of U.S., approved conference, rate and interconference agreements, 8900
summaries of trade and tariff, information, 14045, 16875
trade agreement with—
Canada, 6644
Great Britain, 12529
Spain, 2581
trade between U.S. and Japan (remarks), 15653
trade promotion, business-Government partnership for profits, jobs and economic progress (remarks), 10687
trade tips on the world market, 10019
United States economic relations with Japan (address), 11509
United States trade—
recent changes, 10512
relations with East European countries and Soviet Union, 9718
with Communist areas in Eastern Europe and Asia, 14327
with major world areas, 15648
with Puerto Rico and U.S. possessions, monthly report, 3004
waterborne, calendar year, 1964, 676
national summaries, 4334
supplements, 5886, 7332
waterborne transportation, inter-American convention, 13085
world trade—
and Kennedy round (address), 6619
grain, 17680
major element in national economy (address), 10016
1961–64, machine tools, 3871
U.S. companies (remarks), 1519
see also Exports—Imports—*also* names of countries and places—*also* names or classes of articles of commerce.
Commerce business daily, 2760
Commerce Committee, Senate:
calendar, 3133
committee prints, 1934–35, 4216, 8770, 14479
hearings, 572, 1929–33, 4214–15, 5802, 7205–8, 8769, 10332–336, 11795–798, 13197–204, 14478, 16180, 17574–577
history, membership, and jurisdiction, 150th anniversary, 14448
print as Senate document, report, 16074
investigations and studies, authorization, report, 4178
reports, 552, 559, 1915–16, 1918, 7187, 7189, 8726, 10280, 10314–315, 10318, 10320, 11764, 11774–776, 13153, 14456–457, 14459–460, 14463–464, 14466, 16077, 16080, 16095, 16105, 16109, 16121, 16123, 17487, 17538, 17547, 17556
Commerce Department:
agency of business, promotes growth, guidebook, 10047
appropriations, 1967—
hearings, 15956, 17567
reports, 15938, 17348, 17539
career opportunities, business, domestic and international, 5547
careers for management analysts, 7002
careers, 66 fields, 7001
Commerce Department—Continued
economic and social research programs, opportunities for cooperation with schools of business administration (remarks), 338
high speed ground transportation program (remarks), 10042
honor awards program, 5546
industrial mobilization and administration of priorities and allocations, review, hearing, 453
maritime functions, transfer to independent administration—
hearings, 15984
reports, 15873–874
piggyback program in cooperative exporting, general information, 10031
press releases, 3353
publications, 1964 supplement, 364
report, 1965 activities, 7000
research and development in high-speed ground transportation report, 1918
science and technology, background information, 10045
services in selling around the world, 4026
trade tips on the world market, 10019
U.S. Government action programs (address), 10689
Commercial artists, *see* Artists.
Commercial aviation, *see* Air carriers.
Commercial banks, *see* Banks and banking.
Commercial fisheries, *see* Fish and fisheries.
Commercial Fisheries Bureau:
appropriations, 1967, hearings, 7113
Biological Laboratory—
Beaufort, N.C., 1965 report, 10527
Galveston, Tex., report, 16298
Gulf Breeze, Fla., report, 14651
Honolulu, Hawaii, progress in 1964–65, activities, 8939
Biological Station, St. Petersburg Beach, Fla., reports, 11966, 16297
cost-sharing arrangements with Oregon for operation of fish hatcheries, GAO review, 6023
electrofishing shocker, characteristics and operation, 13348
fishery motion pictures, 14655
Radiobiological Laboratory, Beaufort, N.C.—
1964 report, 2036
1965 report, 13342
region 2, exploratory fishing and gear research, 1964 report, 10524
resources funds for general administrative expenses, violation of statutes by use of management and investigations of, GAO report, 12009
survey of fishery resources of U.S., authorize—
hearing, 11795, 17390
report, 10320
symposium on red tide, 4425
Technological Laboratory, Gloucester, Mass.—
1963 report, 2037
1964 report, 11965
Commercial growing of sweet corn, 14135
Commercial pilot, examination guide, 10544
Commercial policy:
and German-American relations (address), 8034
commercial tasks, North Vietnam, 12101
private boycotts of Communist countries vs national interest, 15338
Commercial policy series, 9718, 15338, 18115
Commercial practices, Code of Federal regulations, 8919
Commercial products:
census of business, 1963—
commodity line sales, wholesale trade, subject report, 1701
merchandise line sales, announcement and order form, 8323

Commercial products—Continued
census of business, 1963—Continued
merchandise line sales, retail trade, statistics—
United States summary, 8325
West North Central States, errata, 196
commodity transportation survey—
census, 1963, commodity groups, 16998
shipper series, preliminary reports, 212–222, 3909, 5452–53
exports—
by air, foreign trade reports, 3001, 3003
foreign trade reports, 2998–99
statistical classification, schedule B, 3491
hot goods, written assurance of compliance under Fair labor standards act, general statement, 9762
imports—
by air, foreign trade reports, 2996–97
foreign trade reports, 2994
market for U.S. products in—
East Africa, 12059
Iran, 7526
Ivory Coast, 7527
Mexico, 12060
new product development for economic growth in rural areas, 1595
prepackaged, checking manual for weights and measures officials, Spanish translation, 1291
products list circular, new products development for small business, 3421
products subject to duty on American selling price basis of valuation, investigation, 14044, 18129
tariff treatment of articles assembled abroad of products of U.S., reports, 16130, 17332
USSR consumer goods and domestic trade, translations, 3616
wholesale prices for new products, USSR study, 4599
see also names of products.
Commercial standards, *see* Standards and standardization.
Commercial treaties:
economic relations with—
Thailand, treaty, 13084
Togolese Republic—
report, 16001
treaty, 13076
trade agreements—
and adjustment assistance programs, code of Federal regulations, 7406
program 1964, report—
departmental edition, 2513
document edition, 1796
trade expansion act of 1962, negotiation of agreements, resolution expressing sense of Congress, report, 13132
see also General agreement on tariffs and trade.
Commercial warehouse service plan for Department of Defense agencies, 17609
Commissaries, subsistence supplies authorized for sale in commissary stores, Army regulation, 115
Commissary stores, *see* Commissaries.
Commissarymen 3 & 2, Navy training course, 15242
Commission for Acquisition of Official Residence for the Vice President, establish, reports, 553, 7088
Commission for Educational Exchange between United States and Uruguay, agreement, 1496
Commission on Architecture and Planning for Capitol, *see* Capitol.
Commission on Civil Rights, *see* Civil Rights Commission.
Commission on Revision of Federal Criminal Laws, establish, hearings, 14429
Commissioned officers, *see* Coast Guard Reserve—Pay, allowances, etc.
Commissioners of District of Columbia, *see* District of Columbia.
Commissions, *see* names of commissions.
Committee on Economic Impact of Defense and Disarmament, *see* Economic Impact of Defense and Disarmament Committee.
Committee reporter (periodical), 2766
Committees:
ASC committees, problems, hearings, 10226
county ASCS employees, extend benefits to—
hearing, 7233
report, 16069
see also names of committees.
Commodities, *see* Agricultural products—Commercial products—Exports—Imports—*also* names of commodities.
Commodity Credit Corporation:
acquisition and disposal by CCC of surplus farm products, 6722
appropriations, 1967, hearings, 8648
corn marketing, impact on small business, hearings, 15992
establish and maintain reserves of agricultural commodities, etc., authorize, hearings, 7107, 8645, 11785
print additional copies, reports, 17278, 17544
financial condition and operations, 3464
financial statements, 1965, GAO examination, 4492, 14381
highlights of CCC's operations, 6721, 9801
need to consider storing processed commodities on daily-rate basis, GAO report, 6015
operations, June 30, 1965, graphic summary chart, 17063
price support program, 6723
report, 10048
sale of grain storage facilities, reports, 17231, 17557
sales list, monthly, 2733
shipments of perishable commodities, reducing costs, GAO report, 13375
wheat, increase resale price, hearings, 5794
Commity Exchange Authority, appropriations, 1967, hearings, 8648, 11787
Commodity exchanges:
act, amend, hearings, 10227
code of Federal regulations, 8920
commodity futures statistics, July 1964–June 1965, 66
Irish potato futures, prohibit trading, hearings, 11639
Common carriers, *see* Communications—Motor carriers.
Common Market, *see* Central American Common Market—European Economic Community.
Common sense about evaluating and recognizing performance, 12552
Common varieties act, *see* Mineral lands.
Commonwealth Parliamentary Association:
conference, Wellington, New Zealand, Nov. 30–Dec. 8, 1965, report of U.S. delegation, 5637, 10341
Senate observers attendance at meeting, report, 13170
Communications:
act of 1934, amend—
hearings, 7205, 10250, 17574
report, 10314
aeronautical, ATS handbook, 3800, 12647
Alaska, long-line facilities, Government-owned—
disposal, report, 17516
hearing, 13194
antimechanized operations, Fleet Marine Force manual, 2309
career opportunities, State Department, domestic and oversea assignments, 2574

Communications—Continued
carriers, discontinuance of service, FCC rules and regulations, 2927
circuits, tropospheric, transmission loss predictions, 13861–862
civil defense, program materials for successful meetings, 8383
Coast Guard manual, 3997
coded, phase-coherent and non-phase-coherent, comparison, 7814
common carriers—
and affiliates, reports, FCC rules and regulations, 2927
miscellaneous rules, FCC rules and regulations, 2927
preservation of records, FCC rules and regulations, 2927
statistics, 5925
communication and control, administrative management course program, 5136
Communist China, translations, 3599
equipment—
current industrial reports, 2818, 8351
Federal item identification guides for supply cataloging, supplements, 2936
including radio, TV, and electronic components, etc., census of manufactures, 1963, industry report, 11452
reliability and economy, USSR study, 12125
troubleshooting, 1348
ground-to-air facilities in northern Canada, agreement, 9727
hydroacoustic system with pulse-time signal modulation, USSR study, 2263
increasing transmission rate of discrete information, USSR study, 12106
industry wage survey, 4729
keeping channels open through USDA services (address), 1610
laser and optical, prospects, USSR study, 12122
measurable index of team behavior, 1350
Navy design manual, changes, 1569
noise-stability of codes with summation in communications systems with repetition, USSR study, 7614
Northeast power failure of Nov. 9 and 10, 1965, effects, 7360
operator training course, 5365
organizational mechanic/repairman course, 5362
PACAF basic bibliogprahies, supp., 5320
problems of information transmission, USSR journal, translation, 10751
procedures, ATS handbook, changes, 1629
publications, price list, 16788
radio science, 3449
radio science, journal of research, National Bureau of Standards, 8103
satellite act of 1962, report on activities, etc., 5618
satellites—
advanced lenticular passive, from low to synchronous orbit, design studies, 13709
bibliography, 10981
deep space monitoring for space vehicles, 2435
Echo II passive system, experimental and theoretical evalution, 9505
government use, hearings, 15973
Government use, report, 17345
historical background, etc., 15078
national programs, review, hearings, 7201
orderly spaced, probabilities, time available, 1187
Syncom engineering report, 7806
system, final report of Relay I program, 1195
Soviet research with dolphins, 14957
system uses modulated laser beam, 1209
technician O 3 & 2, Navy training course, 2487
Communications—Continued
technology, scientific meeting on 50th anniversary of Telecommunications Research Institute, Hungary, 7578
telegraph, in railroad transportation, USSR study, 16400
USSR—
hearld of communications (periodical), 3039
rates for services, 9141
translations, 3615
vital to cooperatives, 14592
yeoman 3, Navy training course, 1343
yeoman, trainee's guide, 2489
see also Electric lines—Military communications—Radio communications—Space communications—Submarine cables—Telecommunication—Telephone—Wire communication.
Communications Satellite Corporation:
nomination of William Hagerty, hearings, 4215
relationship with Government, hearings, 7201
Communism:
activities in Chicago, Ill., area, hearings, 4148
activities of foreign societies of friendship with Soviet Union, 10807
anatomy of Communist takeovers, study, 14497
anti-Communism of US. Soviet views, 17758
Baltic States, status, report, 16136
Caribbean threat to U.S., hearings, 580, 587, 1948, 8784
church and state under Communism—
Communist China, 7220
Hungary, Czechoslovakia, German Democratic Republic, 7219
North Korea and Democratic Republic of Vietnam, 8780
Communist atheism and Moslem faith, USSR study, 10766
Communist Party and coalition governments in Soviet Union and Eastern European countries, study, 8783
Communist Party on religion and the church, 7601
Eastern Europe, science and Communist society, USSR study, 14929
French Communist eyewitness report on North Vietnam war effort, 4689
history of Soviet Union, methodological advice to propagandists, 7573
human factors consideration of undergrounds in insurgencies, 16961
infiltration and exploitation in anti-Vietnam agitation and teach-in movement, problem, staff study, 1885
international developments, translations, 3607
Marxism-Leninism, developed through struggle against left-wing and right-wing opportunism, North Korean study, 14820
overcoming religious vestiges in USSR, 17774
Pravda hails Havana Solidarity Conference, international opinion, 4603
private boycotts vs. national interest, 15338
problems (periodical), 3417
religion, Communist exploitation, hearing, 11815
scientific, discussion of problems, USSR study, 2230
totality problem in Marxist philosophy, USSR book review, 995
two world systems and their development tendencies, USSR study, 2248
Ukrainian minorities ignored outside the Ukraine, appeal for rights, 2171
United States treatment in different countries (address), 2578
unity of all revolutionary and democratic forces, USSR materials, 13507

Communism—Continued
USSR—
Kommunist (periodical), translations, 3589
party spirit of military-historical science, 2157
world movement, 1818–1957 selective chronology, 1871
Communist China, *see* China.
Communist of Ukraine (Ukrainian periodical):
translation, 9183
Communist Party of Armenia, meeting of AKTIV of party organization, 10758
Communist Party of China:
blueprint for aggression, the People's war, 12648
long live victory of people's war, Red Chinese blueprint, 5338
Communist Party of France, unity-of-the left strategy, 12113
Communist Party of Iraq, struggle for national independence and democratic development of country, Near East study, 969
Communist Party of Soviet Union:
activities in ministry of railways, 9067
activities of Maksim Litvinov as ISKRA agent, 14837
CC decree on further improvement of system for raising qualifications of key personnel of kolkhozes, etc., 6214
growing role in development of Soviet society, 1062
high role of party congresses in establishment and development, 6192
intervention in economic affairs, 12153
plenum of central committee, Mar 24–26, 1966, report, 7548
policy, scientific basis, 16491
23d party congress, selected speeches, 9134, 10729
unity of theory and practice, important principle of CPSU activities, 9153
wide Socialist competition for meeting of 23d session, 6237
Communist Party of Sweden, former chairman publishes book, 14903
Communist Party of Ukraine, history, Ukrainian study, 6219
Communist Party of United States:
activities in Chicago, Ill. area, hearings, 4148
convention, statement by J. Edgar Hoover, 13224
youth program, 10353
youth program, hearings, 11816
Communities, *see* Cities and towns—Rural communities.
Community centers, *see* Recreation centers.
Community colleges, *see* Junior colleges.
Community development programs:
directory, community action programs, 5861, 13258
district act of 1966, rural America, planning of public services, etc.—
hearings, 8761, 14403
reports, 8740, 12918
district, designation by Secretary of Agriculture, message from the President, 5604
Federal programs, 11347
Federal programs for individual and community improvement, catalog, 5860
Head Start, invitation to help, 4268
homes, etc., publications, price list, 1408
rural community action—
agricultural program, 10399
can serve hard-to-reach older people, 8827
food distribution, 10400
home food production, 10401
rural program—
family counseling, 11859
remedial reading, 11860
Community development programs—Con.
social welfare's place in process of development—
French edition, 15426
Spanish edition, 15425
we can help clear the air, Jaycee community action program, 15311
Community facilities:
and programs serving public housing, 9636
Head Start child development centers—
daily program, 4273
equipment and supplies, 4277
good nutrition, 4272
medical guide for directors, 4271
parent participation, 4275
securing the needed staff, 4270
selection and recruitment of volunteers, 4274
social services, 4276
hospitals and health facilities, facts for Hill-Burton applicants, 13955
Navy design manual, changes, 1569
Older Americans act, grants to States for planning, services and training, 4
Community Facilities Administration, press releases, 3354
Community health, *see* Health.
Community Health Services Division, research and research training grants and fellowship programs, 1433
Community life:
building and maintaining community support for President's Committee on Employment of the Handicapped, 9197
naturalization candidates, Federal textbook on citizenship, home study course—
for helper, 7502
for student, 7503
organization for citizen participation in voluntary democratic associations, bibliography, 1396
war on poverty, community action program, hometown fight, 7285
Community mental health services in northern Europe, 5025
Community Relations Service:
aims, programs, accomplishments, etc. (remarks), 4031
annual report, 7014
CRS media relations, informational monitoring service, 2812
director, nomination of Roger W. Wilkins, hearing, 7207
press releases, 3355
reorganization plan, hearing, 7149
transfer to Justice Dept.—
disapprove, hearings, 7216
message from the President, 4073
reports, 8566, 8731
Community Shelter Planning Policy Council, Civil Defense Office, organization and use, 7027
Community surveys:
Atlantida, case study in household sample surveys—
content and design of household surveys, 3938
field operations, organization, training, and control, 17012
population data controls, 6937
sample design, 15596
survey objectives and description of country, 3937
candidates for saline water demineralization applications, 7514
odor surveys and evaluation (paper), 15274
Como, Miss.:
motor carrier accident, 6099
railroad accident, 6099
Compact actuator converts rotary to linear motion, 12307
Compact retractor protects cabling loops, 4855

Compacts (interstate), *see* Interstate agreements.
Companies:
acceptable as sureties on Federal bonds, list, 12546
engaged in dual distribution, require disclosure of separate annual operating data, etc., hearings, 5817
equal opportunity in business, franchise company data, 8425
filing annual reports with SEC, directory, 15321
tank units, Army field manual, 8252
United States, doing business with NATO, participation, etc., 1691
Comparative, veterinary, and primate cardiovascular research, 5026
Comparators:
FET (field effect transistor) comparator detects analog signal levels without loading analog device, 11018
peak ac-dc voltage comparator for use in standards laboratory, 5014
Compatibility:
columbium and tantalum alloys with potassium, 9542
polymeric materials with fluorine and fluorine-oxygen mixtures, 12340
Compendium of foreign programs, 10017
Compensation, *see* Employers' liability and workmen's compensation—Pensions—Salaries—Wages.
Competition:
banking, and banking structure, studies, 7015
diffusion welding, results, USSR study, 17794
insured banks, savings and time deposits, eliminate unsound practices, hearings, 11645
Peru, market and competitor for U.S. farm products, 13265
Complementary monostable circuits achieve low power drain and high reliability, 10991
Composers, American, published concert music, catalog, 1525
Composite materials:
boron nitride, ablative and insulating properties, 17922
filamentary, mechanics of, 13708
errata, 15037
gaskets, compatible with liquid oxygen, etc., 15125
glass-resin, initiation of failure mechanisms, 15039
micromechanics, stresses and failure mechanics induced by inclusions, 15073
non-glassy inorganic fibers and composites, 15086
tungsten-fiber-reinforced copper, electrical resistivity and conductivity, 15183
wood-plastic, engineering and evaluation study for manufacturing, 15534
Composites:
cylindical, precision winding with shaped glass filaments, 15038
graphite-metal carbide, 12267
low density, high strength high modulus, study, 15041
Compound interest tables for long-term planning in forestry, 12595
Compounds:
complex, use of physical methods to study, 2d conference, 16437
synthesis, selected progress report of Organic Chemistry Section, July 1964–June 1965, 1299
see also names or classes of compounds, or purposes for which used.
Comprehensive export schedule, 7524
Compressed air:
distribution systems, maintenance manual, 5255
model investigation of solid rocket overpressures due to interference from aft-end ignition rocket, 13840
Compression of video data by adaptive nonlinear prediction, 13813
Compressors:
axial-flow, optimized turning-vane design for intake elbow, 1259
Federal item identification guides for supply cataloging, supplements, 2935
industrial plant equipment handbook, 10386
Comprobacion de articulos de consumo preempacados, manual para funcionarios de pesas y medidas, 1291
Compton, Arthur H., honor the memory of this physicist, remarks and reminiscenses, 8298
Compton, Harold R., study of accuracy of estimating orbital elements of lunar satellite by using range and range-rate measurements, 4911
Comptroller General, *see* General Accounting Office.
Comptroller of Currency:
regulatory authority, strengthen—
hearings, 11794, 15963
report, 16101
report, 1964—
departmental edition, 1781
document edition, 1794
Computations, *see* Numerical calculations.
Computers:
building computers that hear and speak, USSR study, 12183
computer based, adaptive training applied to symbolic displays, 11154
computing problems in spheroidal geodesy, USSR studies, 922
history, description, etc., understanding the atom series, 11442
human voice, recognition, Yugoslavian study, 12171
information computer center of machine building plant, USSR study, 6190
technology and Federal tax policy (remarks), 11294
THRP program, THREE-PEE sampling theory for computer selection criteria, 4473
Ukrainian SSR, resources and allocation, 12095
use for hospital discharges simulation, 5120
use in fine arts, USSR study, 10765
see also Denalt performance computers—Electronic computers—Perceptron.
Computing machines, *see* Calculating machines.
Comstock, Hazel B., mineral industry of Mexico, 7698
Concept for passive system to control gas flow independently of temperature, 13778
Conceptual design for squeeze film bearings, 12294
Conceptual design of 50 MGD desalination plants, 846–847, 2111, 6055, 6058–59, 9034, 12043, 12045, 12055, 13430
Conceptual design 150–MGD LTV desalting plant, 16370
Conceptual design study for Mars entry vehicle damper, 15042
Concessions, National Zoological Park, negotiate cooperative agreements granting, reports, 17264, 17489
Concrete:
and concreting materials exposed to natural weathering, performance, investigation, 4343
census of manufactures, 1963, industry report, 3898
control of cracking in mass concrete structures, 1451
horizontal construction joints, methods of preparing, 11899
interrelations between cement and concrete properties, sulfate expansion, heat of hydration, and autoclave expansion, 13855
manual, 18086

Concrete—Continued
manure tank, circular, 15453
permacrete, preliminary investigations, 3818
products industry, 1947–63, indexes of output per man-hour, 4716
proprietary chemical admixture for, investigation, 7334
quality, effects of fluctuations in coarse aggregate grading, 7338
reinforced, bridge members, strength and serviceability criteria, 18085
standard practice, engineering and design manual, 7329
vibrocondensation in concrete, labor hygiene, USSR study, 9179
Conde, Augusto J. Fernandez-, *see* Fernandez-Conde, Augusto J.
Condemnation of property, insanitary buildings in D.C., amend act, law, 427
Condensation:
dropwise, permanent hydrophobic systems, characteristics, 9041
labor hygiene in vibrocondensation in concrete, USSR study, 9179
vapor, study method and physics of heat exchange, 4989
Condensed milk, *see* Milk.
Condenser tubes, *see* Tubes.
Condensers (vapors and gases):
horizontal surface condensers, REA specification, 8012
liquid-nitrogen-cooled, use in pumping of mercury ion beams, 4965
vapor condensation process produces slurry of magnesium particles in liquid hydrocarbons, 7771
Condit, Philip M., inflight and ground-based simulation of handling qualities of very large airplanes in landing approach, 17884
Condon, Patricia A., activated charcoal, list of selected references, 11086
Conductance, *see* Electrochemical analysis.
Conductivity (electric), *see* Electric conductivity.
Conductors (electric), *see* Electric conductors.
Conduits, large, friction factors, flowing full, 2548
Cones:
and half-cone-pyramid configurations, static stability characteristics, 15162
blunted, reentry configurations, longitudinal aerodynamic characteristics, 7848
blunted right elliptical, Newtonian aerodynamic characteristics, 13809
cone-cylinders, linear aerodynamic loads, 7735
conical shells with free edges, flexural vibrations, 6335
laminar boundary layer in supersonic flow with uniform mass transfer, 9414
magnetic fields due to solid and hollow conical conductors, 2373
pointed and blunted, 30° half-angle, at Mach numbers from 11.5 to 34 in air, experimental stability and drag, 4939
raked-off circular and elliptical, aerodynamic characteristics at Mach number of 20 in helium, 9527
right circular cones for inlets, charts of additive drag coefficient and mass-flow ratio, 11061
semivertex, aerodynamic control, effect of body nose blunting, control planform area, and leading-edge bluntness, 12346
sharp right circular, aerodynamic characteristics at Mach 20.3, 6420
spherically blunted, aerodynamic characteristics, at Mach numbers from 0.5 to 5.0, 2409
weak locally homogeneous turbulence in idealized flow, 16679
see also names of conifers.
Confectionery:
additives, amend food, drug, and cosmetic act—
law, 15702
report, 13123
candy and other confectionery products, industry wage survey, 16537
current industrial reports, 2817, 9963
products, census of manufactures, industry report, 3884
sales and distribution, 173
Confederated Salish and Kootenai Tribes of Flathead Reservation, *see* Flathead Indians.
Conference committees, reports, 482, 490, 498, 1823, 1832, 1838, 7083, 7086, 7090, 7101, 8573, 8637, 10160, 10162, 10166, 11618, 11625–626, 11630, 12924, 12930, 12964, 13008, 14394–395, 14399–402, 15880–882, 15899, 15917, 15927, 17199, 17214 17216–217, 17228, 17263, 17265, 17274–275, 17284, 17286–288, 17291, 17295, 17310–312, 17320–321, 17324–325, 17327, 17330, 17332–333, 17336, 17338, 17341–342, 17344, 17347–351
Conference on Selected Technology for Petroleum Purposes, Lewis Research Center, general information, 15085
Conferences, congresses, etc.:
civil defense, successful meetings, guide, 8383
conferences in Soviet bloc (periodical), 2780
future international meetings, world lists, 3716–17
Hungary, 1966 scientific events slated, 4677
international organization and conference series, 1491, 6637, 9724, 8066, 11259, 18120
union conventions, 1966, list, 7678
see also names of conferences, etc.—*also* subjects of conferences.
Confidential material, safeguarding, industrial security manual, 13254
Configurations:
aircraft, with canard controls, hypersonic aerodynamic characteristics, 9515
antenna, provide polarization diversity, 6392
Apollo management manual, 1176
arrow, effect of nacelle orientation on aerodynamic characteristics, 6449
clean homogeneous, critical mass studies, 1263
cone and half-cone-pyramid, stability characteristics, 15162
forebody, of nose-mounted 15° conical probe, stagnation and static pressures, 15155
liquid in propellant tanks, simulator, 9509
parawing, dynamic lateral stability and control, 12347
planetary-entry, model study, 13818
slender wing-body, maximum lift-drag ratios at hypersonic speeds, geometric modifications, effect, 7829
tubular, opened from coiled sheet metal strip, 4846
Confinement, effects as factor in manned space flight, 13711
Congo, United Nations use of peacekeeping forces, 5693
Congo (Brazzaville):
background notes, 11243
mineral industry, minerals yearbook chapter, 9362
Congo (Leopoldville):
agricultural commodities, agreement, 1506
background notes, 9715
educational developments, 14550
mineral industry, mineral yearbook chapter, 4776
Congregation Emanuel of Denver, Colo., free entry of stained glass, 7175, 8450

Congress, Joint Committee on Organization of:
additional expenditures, report, 5752
hearings, 1791, 11595, 14368
joint committee print, 451
reports, 4087, 4170, 13173
rules of procedure, 451
Congress of United States:
code of Federal regulations, 14636
congressional record—
daily, 2781
daily, index, 2782
88th Cong., 2d sess., bound volume, index, 1782
89th Cong., 1st sess., bound volumes, 5564–65, 7016–17, 10050–53, 12796–799, 14330–331, 15661–664, 17064
date of meeting, 89th Congress, 2d session, law, 440
directory, official edition, 89th Congress, 2d session, 1783
employees receiving congressional staff fellowships, preserve retirement and insurance benefits—
law, 7043
reports, 1844, 5789
encroachments by executive and judicial branches upon powers of Congress, report, 17546
executive privilege v. congressional inquiry, hearings, 11595
joint activities, appropriations, 1967, legislative—
law, 15727
reports, 10224, 13168, 14395
legislative record, 89th Congress, 1st session, digest, 541
legislative reorganization act of 1966, report, 16150
major legislative actions, 89th Congress, 4043, 14378, 17154
organization—
hearings, 1791, 17578
index, 14368
report, print additional copies, report, 13002
reports, 4087, 4170, 13173
reports to be made to Congress, discontinue or modify requirements—
law, 448
report, 491
reports to be made to Congress, list, 4062
Republican report—
89th Congress, 1st session, supplement, 539
89th Congress, 2d session, 17405
see also Congressional documents—House of Representatives.
Congress, Special Committee on Organization of, Senate:
establish—
hearings, 14504
report, 16106
hearings, 17578
report, 16150
Congressional directory, *see* Directories.
Congressional districts:
90th Congress—
maps, 17019
redistricted States, 15598–610, 17013–17
Congressional documents:
numerical lists and schedule of volumes—
88th Congress, 1st session, errata, 2518
89th Congress, 1st session, 9620
Congressional list (series), 849, 6054
Congressional record, *see* Congress of United States.
Congressional serial set, 366–369, 1784–86, 4034–36, 5566–68, 7019, 8446–48, 10054–57, 11532, 12801, 14322–333, 15665–667
schedule of volumes—
88th Congress, 1st session, errata, 2518
89th Congress, 1st session, 9620
Conic frustums, *see* Frustums.
Conifers:
Maine, estimating tree specific gravity, 10595A
natural regeneration in relation to environment, 8975
seeding conifers and buffer crops to reduce deer depredation, 17687
shelterwood harvest methods and results for coniferous species, 1930–64, bibliography, 10613
Conley, William T., performance of 8 seed sources of ponderosa pine in Denbigh Experimental Forest, N. Dak., 5982
Connally hot oil act, *see* Petroleum.
Connecticut:
bus taxation proration compact, consent of Congress, law, 414
census of manufactures, 1963, manufacturing plants, location by county, industry, and employment size, 14254
county business patterns, 5461, 15577
District Court, term to be held at New London—
law, 15737
report, 17481
electric rate book, 10481
Fairfield County Soil and Water Conservation District, recreation pond, sanctuary for family bird watching (colored poster), 9666
fireplace wood market in urban areas, 17700
life tables, 18014
mineral industry, minerals yearbook chapter, 17840
postal map, 13934
Waterbury-Bristol area, water resources, 823
Connecticut River National Parkway and Recreation Area, establish, hearing, 13216
Connecticut River National Recreation Area:
study feasibility—
law, 17114
reports, 13136, 15875
Connectors (electric):
bayonet-type, coupling facilitated with modified pliers, 17893
bismuth alloy potting seals aluminum connector in cryogenic application, 7792
device serves as hinge and connector for circuit board, 13794
feed-through connector withstands high temperatures in vacuum environment, 2379
floating device aligns blind connections, 4844
high pressure, low temperature electrical connector makes no-leak seal, 7759
interconnection problem in microelectronics, survey/study, 7736
junction connectors for strategic placement of television cameras, 15121
polarizing keys prevent mismatch of connector plugs and receptacles, 12296
separable tubular brazed, induction, processed, 12273
single connector provides safety fuses for multiple lines, 6376
tool enables proper mating of accelerometer and cable connector, 9498
Connectors (structural):
threaded split ring connector separates structural sections, 4877
Connectors (tube):
brazed, improved tool easily removes, 4840
Conner, W. J., water vapor electrolysis unit, 16613
Connor, John T.:
addresses, etc.—
Oct. 25, 1965, 356
Oct. 29, 1965, 331
Nov. 2, 1965, 355, 359
Nov. 4, 1965, 353
Nov. 11, 1965, 334
Nov. 15, 1965, 330
Nov. 17, 1965, 332
Nov. 18, 1965, 329

Connor, John T.—Continued
addresses, etc.—Continued
Nov. 23, 1965, 333
Dec. 1, 1965, 335
Dec. 3, 1965, 354
Dec. 15, 1965, 1777
Jan. 12, 1966, 4023
Jan. 24, 1966, 4021
Jan. 25, 1966, 4022
Feb. 9, 1966, 5543
Feb. 21, 1966, 5545
Mar. 1, 1966, 5559
Mar. 2, 1966, 5558
Mar. 3, 1966, 5560
Mar. 10, 1966, 5544
Mar. 26, 1966, 6999
Mar. 31, 1966, 6998
Apr. 1, 1966, 6997
Apr. 13, 1966, 8421, 8441
Apr. 18, 1966, 8429
Apr. 20, 1966, 8424
Apr. 28, 1966, 8423
May 2, 1966, 8422
May 24, 1966, 10016
June 14, 1966, 10046
June 15, 1966, 10044
June 16, 1966, 14328
June 22, 1966, 14320
June 23, 1966, 11510
July 8, 1966, 11509
July 28, 1966, 12794
Sept. 14, 1966, 15641
Sept. 28, 1966, 15656
Oct. 4, 1966, 17053
Oct. 7, 1966, 17062
Oct. 11, 1966, 17061
Oct. 12, 1966, 15655
1966 outlook and 1965 year-end economic review, 1771
Connors, Mary M., differential color sensitivity in purple region, 6284
Conrad, Joseph, market for U.S. scientific, industrial and technical instruments and equipment in France, 1773
Consciousness, functional prerequisites and particular features, USSR study, 2256
Conscription:
local board memoranda, 3162
local draft boards, etc., administration and operation of Selective Service System, review—
hearings, 13020
interim report, 13021
local draft boards, present operations of Selective Service System, memorandum, 5720
selective service (periodical), 3511
selective service, college qualification test, bulletin of information, 8017, 15322
selective service, historical background and chronology, outline, 12499
selective service regulations, 3512
Conservation, *see* Natural resources—Soil conservation—*also* subjects.
Conservation farming, *see* Soil conservation.
Conservation notes, 10529–530, 17075
Conservation research reports, 13, 3736, 9791, 15435
Conspiracies, organizational conspiracies act, report, 17352
Constantan, multiple temperatures sampled using one reference junction, 12302
Constitution of United States:
amendments—
House of Representatives 4-year terms, hearings, 8672
investigation, authorization, report, 4205
preserve to people of each State power to determine composition of its legislature and apportionment of membership thereof, report, 5776
Presidential inability, etc., report, 1838
proposals, 89th Congress, 1st session, report, 13130
school prayer, hearings, 16191
Constitution of United States—Continued
Bill of Rights, 5-cent commemorative postage stamp (poster), 11172
constitutional rights—
American Indians, hearings, 1942
investigation, authorization, report, 4188
religious freedom, State law relating to transportation and textbooks for parochial school students, 16241
study, subcommittee activities, report, 16122
constitutionality of grants or loans under certain acts, judicial review, hearings, 11818, 13223
enforcement of establishment and free exercise clauses of 1st amendment, report, 13164
individual rights, layman's guide, 4227
our Constitution and Government, Federal textbooks on citizenship, 6052, 7504
psychological tests and constitutional rights of Federal employees, hearings, 10356
text, 13327
print additional copies, reports, 10190, 16097
print as House document, reports, 10199, 17472
with analytical index, unratified amendments, 15786
Constitution Week, bulletin, 16367
Constitutional rights, *see* Constitution of United States.
Constitutions, *see* names of organizations.
Construction, *see* Building—Construction industry—Installations (military)—Roads and highways—Underground construction.
Construction equipment, *see* Building machinery.
Construction grants for community facilities for mentally retarded, 12462
Construction industry:
Bulgaria, activities of computer center, 13535
construction activity, reports, 2786
construction authorized, Washington, D.C., area, 2783
construction reports, 1710, 2783–88, 5458, 12704–705, 14263
construction review, monthly industry report, 2789
statistical supplement, 5433
expenditures, employment effects, 13621
fatalities for analysis, 10850
flow-line production methods, basis of power-plant construction, USSR study, 2278
full skill potential of labor needed (remarks), 1077
projects, common situs picketing, report, 8543
safety on jobsite, planning for, 16517
Soviet construction and building materials industry, translations, 3613
statistics, 5433
wage and hour provisions of fair labor standards act coverage, 9761
weather and construction industry, general information 17637
Construction labor, *see* Labor.
Construction machinery, *see* Building machinery.
Construction machinery operator, *see* Operating engineers.
Construction mechanic 1 & C, Navy training course, 6529
Consuls, foreign consular offices in U.S., 9720
Consultants, college and university faculty members, policies, practices, and problems, 9575
Consumer Affairs, Office of Special Assistant to the President for, *see* Special Assistant to the President for Consumer Affairs, Office of.

Consumer and Marketing Service:
appropriations, 1967—
amendment, 13068
hearings, 8648, 11787
C&MS series, 590–591, 3831–35, 4231, 7239–40, 10373–374, 11835, 13232–234, 14507–511
poster, 7247
service and regulatory announcements, 1955, 4235–36, 7245–46, 10376, 11837, 16203
Consumer bulletins, FHA, 4372, 13321
Spanish editions, 8896, 8899
Consumer credit, *see* Credit—Installment credit.
Consumer finance companies, *see* Finance companies.
Consumer goods, *see* Commercial products.
Consumer income, *see* Income.
Consumers:
action and war on poverty, conference proceedings, 7274
being wise consumer (remarks), 2516
buying indicators, series, 268, 5496, 11474, 14278
consumer education of interest to Government and business alike (address), 10015
consumer in market, challenge for both (remarks), 6741
consumers and farmers, agricultural marketing, vital link, 6753
credit, quick guide, Spanish edition, 1606
education, FDA student materials, 4431
expenditures and income—
rural farm population—
north central region, 14117
northeastern region, 15438
southern region, 14118
United States, 12590
western region, 25, 12589
rural nonfarm areas—
north central region, supp., 2289
northeastern region, 1089
southern region, supp., 2290
United States, supp., 6255
western region, supp., 2291
urban and rural—
north central region, 7662, 10855
northeastern region, 10854, 12207
southern region, 7663, 13591
tables, 2292
United States, 10857, 12208
western region, 9205, 10856
FDA memo for consumers, CM (series), 2049, 5968, 8946, 10545
FDA radio–TV packet (periodical), 3450
food and agriculture act of 1965, questions and answers, 36
information, price list, 2519
merchant and consumer, partners in prosperity (address), 5090
Negro, in the West, 14983
opinions and attitudes about poultry and poultry products (remarks), 3749
partnership in consumer service (address), 1603
price index, 2793
items, relative importance, 1096
selected items and groups, 6270, 12221
protecting interests, message from the President, 7068
protection, fair packaging and labeling in interstate commerce, hearings, 15980–981
publications, list, 843
purchases of citrus fruit, juices, drinks, and other products (periodical), 2794
right to safety, etc., (address), 2512
service, USDAs report (periodical), 3514
USDA consumer expenditure survey reports, 25–26, 5277, 1577–79, 6718, 8139, 9796–99, 11342–343, 12588–590, 14117–118, 15438
USDA services, guide, 15451
Consumers Department, create, hearings, 15970
Consumption (economics):
industrial diamond & small diamond dies, 9943
USSR, new directions in Soviet economy, 12485
see also Food.
Contacts (electric), *see* Electric contacts.
Contagion and contagious diseases:
infectious diseases, classification, USSR study, 1042
infectious diseases of nervous system, progress, summary, 1319
morbidity and mortality weekly report, 3225
natural foci, related to epidemiology, USSR study, 9125
organization of epidemic control within foci of infectious diseases, USSR study, 9142
treatment and handling of certain infectious diseases in USSR, 17752
treatment and prophylaxis of infectious diseases with immune gamma globulins, USSR study, 14822
see also Diseases of animals.
Containers:
CHENIS container for lowering liquid dye to any sea depths, USSR study, 14799
closures, current industrial reports, 2817, 11463
customs convention, 13081
empty cargo, etc., exempt from coastwise trade laws, hearing, 10335
environmentally controlled reusable, for shipping and storing critical parts, 12300
epoxy-coated, use of wire band for ease in opening, 9481
Federal item identification guides for supply cataloging, supplements, 2934
fiberglass container shells form contamination-free storage units, 11011
glass, current industrial reports, 2817, 12717
glass, destination of shipments, current industrial reports, 12713
industry report, 2795
information sources, 179
paperboard—
census of manufactures, 1963, industry report, 5441
industry wage survey, 9331
requirements under agricultural marketing agreements, continue, law, 431
rigid, nonlinear lateral sloshing, studies, 4830
shipping containers for eastern-grown peaches, evaluation, 6756
single service, for milk and milk products, fabrication, sanitation standards guide, 15278
sources of information, 8320
steel, marking to indicate country of origin of steel, report, 12907
wooden, census of manufactures, 1963, industry statistics, 6898
Contamination:
control, Apollo Program handbook, 17871
environmental lead, symposium, 8002
fiberglass container shells form contamination-free storage units, 11011
radioactive, resulting from use of nuclear explosives for stimulating petroleum production, 1158
restoring quality of our environment, 1399
safeguarding food products and water from agents of mass destruction, USSR study, 891
see also Air pollution.
Contested elections:
cases, limit to contests brought by candidates named on official ballots, clarify statutes, reports, 17259, 17296

Contested elections—Continued
congressional, Mississippi, hearings, 516
Peterson *vs.* Gross, hearing, 515
Contests, *see* names of contests, or subjects involved.
Continental Air Lines, Inc., accident, 12735
Continental Shelf:
development and potential of U.S. Continental Shelves, Battelle Memorial Institute report on its study, 10002
interagency conference on research of resources, 8862
Outer Continental Shelf lands act as extended, 13285
Continents, earth's crust and upper mantle, USSR study, 16446
Contra Costa County, Calif., dental health programs, 6586
Contraception, *see* Birth control.
Contract Appeals, Government Board of, *see* Government Board of Contract Appeals.
Contractions, *see* Abbreviations.
Contractor reports NASA CR (series), 1179–91, 2358–69, 4804–32, 6328–49, 7721–48, 9390–9442, 10936–970, 12264–274, 13707–719, 15037–77, 16589–618, 17872–884
Contractors:
how to do business with GPO, guide, 12034
NASA contractors trim cost, 7749
see also Government contracts.
Contracts:
Bulgaria, new system of planning and economic management, 16454
contract reports, Waterways Experiment Station, 4335–36, 8861
franchising agreements, effect on small business, hearings, 14495
regulations governing reports on obligations, 6674
see also Government contracts.
Control (vehicle), *see* Aircraft—Airplanes—Helicopters — Satellites — Spacecraft — Wings (aircraft).
Control circuit maintains unity power factor of reactive load, 16645
Control lines, maintenance, FAA handbook, 16256
Control surfaces, *see* Aircraft.
Control systems:
asymptotic optimal systems as model of process of teaching control to system, USSR study, 10792
attitude control of space-vehicle upper-stage, use of rotating-solid-rocket control system, errata, 15132
automated production, USSR developments, 16399
automatic, multiply-connected variable-structure, autonomy, USSR study, 17765
automatic regulation and control, USSR studies, 15203
biological, review and evaluation, 16598
bounded phase coordinate control, 9438
control of time variable, nonlinear multivariable systems using Liapunov's direct method, 7729
controllability of nonlinear systems, 9428
cybernetics and control theory, USSR study, 14853
differential games and manual control, 16704
high-power-level temperature controller for space flight applications, 7842
human transfer functions used to predict system performance parameters, 15109
in-flight synthesis, data requirements, and multiple blender studies, 15055
information requirements, 10937
maintain compartment at constant temperature, 10997
maintaining selected liquid level, 4872
man-machine relationships in railroad control, USSR study, 17791
manually controlled translation over lunar system, fixed-base visual-simulation study, 17919
Control systems—Continued
minimum effort, theory, 6330
multi-axis and multi-loop, human transfer functions, 9512
multi-variable manual studies, two-axis compensatory systems, 16593
on-off rate diagrams to analysis and design, applications, 10952
optimal control of saturating systems with stochastic inputs, 12356
optimization of relay controlled system subjected to random disturbances, 10958
optimum control and estimation theory, combined, 9401
orbital testing requirements for guidance and control devices, 4813
parawings, low-speed force and flight investigation of various methods, 4899
passive gravity-gradient stablization, symposium, 16620
phase-locked-loop control for driving ultrasonic transducers, 15174
radioisotope process control, large volume detectors evaluation, 8276
rockets, nose-mounted rotating-solid-propellant, 7855
spacecraft—
digital stabilization study, 13713
orientation, use of photovoltaic solar sensor, 6447
temperature control unit for sounding rocket applications, 16655
transient response from Lyapunov stability equation, 11057
uncoupled and coupled manual systems, human tracking performance, 15045
unified digital instrumentation and control system for nuclear power plants, feasibility study, 15536
unit-type centralized production system, general problems of designing, USSR, study, 2236
USSR progress, 16393
variable-structure automatic, with low sensitivity to rapid, broad changes in parameters of object of control, USSR study, 14913
water vapor jets for space vehicle attitude, 13846
see also Feedback control systems.
Control towers, *see* Towers.
Control your weight, 16792
Controllers, *see* Interpolation path controllers.
CONUS, *see* Installations (military).
Convection of heat, *see* Heat transfer.
Convention of American Instructors of the Deaf, proceedings of 42d meeting, 4158
Conventions, *see* Conferences, congresses, etc.
Conversion of oleoresin yields from short-season microchipping to full-season yields from standard chipping, 4454
Conversion table of code and title changes between 2d edition and 3d edition, dictionary of occupational titles, 4325
Converted flexible packaging products, 3920
Converters, *see* Digital-to-analog converters—Thermionic converters.
Converters (electric), *see* Electric current converters.
Conveyers,, pneumatic, for distributing farm feed, 15477
Convulsions:
anticonvulsants used in treatment of seizures, USSR studies, 9099
influence of different grades of hypoxia on sensitivity to epileptogenic agents, etc., USSR study, 1022
Cook, A. Clinton, survey of Mexican vegetable and melon production, 13354
Cook, Alton B., derivation and application of material balance equation for partly depleted oil reservoirs repressured with gas, 9383
Cook, Desmond L., program evaluation and review technique, applications in education, 17624

239-221—67—No. 863——14

Cook, Glenn L., mass spectra of organic sulfur compounds, 4788
Cook Inlet, region, Alaska, tertiary stratigraphy and paleobotany, 12020
Cooke, C. Wythe, emerged quaternary shore lines in Mississippi embayment, 14014
Cooke, Julian P.:
neurologic adaptations in mice exposed to chronic 2x gravity field, 93
verbal communication intelligibility in oxygen-helium, and other breathing mixtures, at low atmospheric pressures, 8205
Cooke, Marion L., distribution of Pennsylvania anthracite for 1964–65 coal year, 2317
Cookery:
principles, 8158
publications, price list, 17992
training under MDTA program, 10427
see also Recipes.
Cooking appliances, current industrial reports, 2817, 15585
Cooks, training under MDTA program, 10427
Coolants:
electric and electronic equipment, etc., bibliography, 3989
liquid, manifold, welds chilled by, 13789
organic, irradiated, friction factor and heat transfer correlation, 9920
radial coolant channels fabricated by simplified methods, 12309
turbine-coolant flow, effect on Brayton-cycle space-power system performance, 12354
see also names of coolants.
Coolies, *see* Chinese—Japanese.
Cooling:
argon purge gas cooled by chill box, 9465
effects of subcooling on boiling in discrete bubble region, 16651
electric and electronic equipment, etc., bibliography, 3989
homes, heat pumps, 12598
see also names of commodities.
Cooling appliances, *see* Refrigeration and refrigerating machinery.
Coombs, Charles A., Treasury and Federal reserve foreign exchange operations, 7421, 17663
Coombs, L. Madison, Indian education, 12040
Cooper, B. K., Jr., concentration gradients produced in electrolytes by magnetic fields, 9044
Cooper, Dale W., generator with superconducting magnetic field for use in 1-megawatt space power systems, 7864
Cooper, G. Arthur, Stringocephalus in Devonian of Indiana, 11224
Cooper, James D., kyanite and related minerals, 13685
Cooper River, navigation improvement, 13298
La cooperación internacional, el aporte de la Administracion de Bienestar, 16902
Cooperation, convertibility and compatibility among information systems, literature review, 11091
see also International cooperation.
La coopération internationale, contribution de l'Administration des Affaires Sociales, 16903
Cooperative economic insect report, 5273
Cooperative housing, *see* Housing.
Cooperative Month, observance, 14593
Cooperative research monograph series, 11881, 17624
Cooperative State-Federal Salmonella reports, 9789
Cooperative State Research Service:
appropriations, 1967, hearings, 8648, 11787
CSRS series, 5836
Cooperative weather observer, 5226
Cooperative Wildlife Research Unit, Bureau of Sport Fisheries and Wildlife, 30 years of progress, 7440
Cooperatives:
bargaining, look to future, 14595
basic features, 14590
communications vital to cooperatives, 14592
directors—
democratic election, 5909
training programs, 5910
farm credit, publications, 4349
grain, general information, 2000
ideal director, 7348
in rural community action, 7275
nonprofit, exempt from FPC jurisdiction, clarify, hearings, 1931
supply cooperatives, general information, 14589
technical and economic assistance under foreign assistance act of 1961, staff report, 13024
see also Farmers cooperative organizations — Forestry cooperatives — *also* names of commodities.
Coordinates:
bounded phase control, 9438
cartesian coordinates and partial derivatives of two-body problem, 16589
Hansen's, in lunar problem, development by method of iteration, 7887
State plane coordinate intersection tables, Alaska, errata, 6983
Coordinator's scoreboard, review of what's new in placement of handicapped, 8393
Coot, hunting, possession, transportation, importation in Alaska, 1966–67, Federal regulations governing, 14673
Copepods:
Argulus, parasitic, 11969
Ergasilus, Achtheres, and Salmincola, parasitic, 11970
see also Crustaceans.
Copper:
aluminum plating, suggested method, 9448
base alloys, chemical analysis procedures, 12436
boron-deoxidized, withstands brazing temperatures, 15092
copper-monel, electron beam welding facilitated by circular magnetic shields, 11009
determination, with disodium ethylenediamine tetraacetate (EDTA), 17861
duty-free entry, hearings, 5713
duty-free treatment of certain forms—
law, 11577
reports, 8633, 11752
electrical resistivity and conductivity of tungsten-fiber-reinforced copper composites, 15183
extraction from low-grade ore by Ferrobacillus ferrooxidans, environmental and nutritional factors, effect, 4795
fins, radiating stainless-steel-clad, two-dimensional heat transfer, 4903
industry—
meeting future needs (remarks), 6293
mineral industry survey, monthly, 2797
quarterly report, 2798
report, annual statistical supplement, 12691
magnetoresistance devices as magnetometers, 13839
mill and foundry products, current industrial reports, 2818, 8352
minerals yearbook chapter, 1107, 17835
ores, census of mineral industries, 1963 industry statistics, 15575
scrap, consumers, mineral industry survey, monthly, 2799
transfer from national stockpile to Bureau of Mint, hearing, 570
wire coated with nickel and silver resists corrosion, 17895
wire, tables, NBS handbook, 5005

Copper foil, provides uniform heat sink path, 4841
Copper selenide, cuprous selenide and sulfide form improved photovoltaic barriers, 4862
Copper sulfate, mineral industry survey, monthly, 2800
Copper sulfides:
  cuprous selenide and sulfide form improved photovoltaic barriers, 4862
  oxidation leaching in ammoniacal pulps at elevated temperatures and pressures, 13692
Copra:
  duties on importation—
    alteration, report, 5771
    suspension, law, 8464
Copying equipment, 5368, 15514
Copyright:
  Australia, protection, laws, etc., 345
  catalog of copyright entries, 595–598, 1956, 4238, 5838–39, 8793, 11838, 17602–604
  code of Federal regulations, 10506
  Colombia, protection, laws, etc., 14326
  decisions of courts, 594
  general information, 1957
  law, revision—
    hearings, 4137
    report, 17292
  musical compositions, general information, 7248
Copyright Office:
  bulletin, 594
  circulars, 1957, 7248
  fees, increase, law, 399
  Register of Copyrights, annual report, 10379
Coral reefs and islands, marine amphipoda of atolls in Micronesia, 2466
Corbett, Edward S., emergency revegetation to rehabilitate burned watersheds in southern California, 10605
Corbin, Patrick L., maneuver load fatigue test results, programing techniques and load factors influence, 4913
Cordage:
  fiber (sisal), disposal from national stockpile—
    hearings, 11643
    law, 11571
    reports, 10150, 11755
Cordaro, Joseph T., isolation of Mima and Herellea from experimental space-flight diet, 11382
Cordell Hull Navigation Lock, Cumberland River, Tenn., filling and emptying system, hydraulic model investigation, 16251
Corduroy, general imports and manufactures, 8321
Corduroy Creek, effects of juniper and pinyon eradication on streamflow from basin, 10643
Corea, Serafina A., *see* Cappadona, Sarah A.
Cores (reactor), *see* Reactors (atomic).
Corey Creek basin, effects of agricultural conservation practices on hydrology, 17725
Coriolis stimulation:
  dynamic characteristics of responses, effects of motion sickness, 100
  effects of flying experience on vestibular system of pilots and nonpilots, 9877
  motion sickness, speed of recovery in relation to pilots and nonpilots, 14194
  responses of flying personnel with different levels of proficiency, 9873
Cork:
  insulation, nylon bit removes without damage to substrate, 9464
  used to make tooling patterns and molds, 13763
Corkboard:
  insulation, make permanent existing duty-free treatment—
    law, 10082
    reports, 8553, 10296
Corkern, Ray, crambe abyssinica, 1945–65, bibliography, 14543
Corliss, William R.:
  computers, 11442
  SNAP nuclear space reactors, 15551
Corn:
  diseases in United States and their control, 12592
  futures, commitments of traders, 2765
  futures trading and open contracts, 3014
  hydrocooling stacked crates, 12582
  marketing by Commodity Credit Corporation, impact on small business, hearings, 15992
  parasitic plant attacks corn, 58
  shelled—
    drying, methods, etc., 1583
    inert dusts for protection in Georgia from insect attack, evaluation, 14109
    protection against insects, progress report, evaluation in Illinois, 14108
  sweet, commercial growing, 14135
  value of mature corn for silage, 14107
  see also Hominy grits.
Corn Belt, commercial farms, 1965, costs and returns, 14533
Corn meal, *see* Meal.
Corn oil, U.S. production and use, 1947–65, trends, 7287
Cornelius Co., President's E award for export excellence (remarks), 10043
Cornwall, H. R., nickel deposits of North America, 13401
Corona (solar), *see* Sun.
Coronado National Memorial, general information, 7943
Coronary diseases, *see* Heart diseases.
Corpas, Miguel A. Martinez y, *see* Martinez y Corpas, Miguel.
Corporations:
  corporate adjustment techniques under voluntary balance of payments program (remarks), 1769
  corporate reorganization releases, SEC, 2801
  District of Columbia income and franchise tax act, amend—
    laws, 15761, 17106
    reports, 12905, 17201
  doing foreign banking or financing that maintain reserve accounts with Federal reserve banks, list, 4392
  income tax returns statistics, 7521, 9049
  industrial, invitation to join in research, 6475
  lenders from jurisdictions outside D.C. making loans secured by D.C. property, clarify status under income and franchise tax act—
    law, 15761
    report, 12905
  manufacturing, quarterly financial report, 3440
  marketing food and kindred products, advertising expenditures, 624
  Portuguese, newly elected presidents and senior offices, 4687
  sales, profits, and dividends, quarterly report, 3489
  small business, amend internal revenue code—
    law, 8465
    reports, 5649, 7176
Corpus, Consuelo A., relief, 1813
Correctional institutions, *see* Reformatories.
Correctional officers, pros and cons, new roles for nonprofessionals in corrections, 14084
Corregidor-Bataan Memorial, agreement with Philippines, 11263
Corregidor-Bataan Memorial Commission:
  annual report, 464
  appropriations, 1967—
    hearings, 7113, 8763
    law, 10086
    reports, 8592, 10160, 10281

Correlation (statistics):
friction factor and heat transfer correlation for irradiated organic coolants, 9920
heat-transfer coefficient and friction factor data for dilute gas-solid suspensions, 15192
of data from tests on nickel-cadmium batteries, 10948
Correspondence:
Defense Supply Agency, manual, 7259, 10302
Engineers Corps (Army), Defense Dept., regulations, 10437
Navy manual, 7977
Correspondence schools and courses:
Industrial College of Armed Forces, national security management, 2144, 4586, 13445
Navy, training manuals and correspondence courses, list, 9588
USAFI offerings by college, etc. DoD pamphlet, 14203, 15502
USSR, part-time education, correspondence study, etc., 650
Corrick, John D., copper extraction from low-grade ore by Ferrobacillus ferrooxidans, 4795
Corrosion and anticorrosives:
build-up of radioactive corrosion products in pressurized-water reactor, effect of purification system, 10745
carbon steel heat transfer surfaces corrosion, 4557
copper wire coated with nickel and silver resists corrosion, 17895
corrosion mechanisms in saline water, research using reversible and irreversible electrodes, 12052
corrosion of metal samples rapidly measured, 7794
corrosion properties of molybdenum, tungsten, vanadium, and some vanadium alloys, 4796
corrosion resistance of flame-fused teflon-coated, magnesium and aluminum alloys, 12432
corrosion studies in water systems of ordinary and atomic power plants, USSR, 924
high-temperature influence of yttrium on oxidation of nickel at 1,200° C, studies, 12255
inhibitor testing, use of hot-finished mild steel coupons, 2348
intergranular corrosion of lead-antimony grid alloys, 16763
lithium corrosion of metals, USSR studies, 16426
market for corrosion protection methods and materials in Sweden, 176
nickel/tin coating protects threaded fasteners in corrosive environment, 2402
plastic coatings, anticorrosive, USSR study, 10701
salt stress corrosion of residually stressed Ti–8Al–1Mo–1V sheet, 7837
salvaging corroded equipment, surface chemical methods, 1376
white primer permits corrosion-resistant coating of minimum weight, 9497
Corrosives, diaphragm valve for flow control has unique features, 15096
Corsets, current industrial reports, 12708, 15582
Corsiglia, Victor R., low-aspect-ratio delta-winged model equipped with sharp-edged strakes, 16684
Corson, Donald R., laboratory study of effect of cement and dispersant additives on hydraulic backfill, 16576
Cortes, J. L. M., application of unitary transformations to fourth order perturbation theory, 9543
Cortez district, Nev., gold geochemical anomaly, 14751
Corticosteroids:
levels in parotid fluid, serum, and urine, prednisolone and triamcinolone effects, 9868
parotid fluid response during dexamethasone suppression tests, 11382
COSATI, *see* Scientific and Technical Information Committee.
Cosby, William A., meteoroid environment and its effects on materials and equipment, 4834
Cosmetics:
food, drug, and cosmetic act—
amend, hearings, 15979
amend, report, 17269
as amended, text, 11984
enforcement and compliance, FDA report, monthly, 2915
enforcement regulations, 16318
food, drug, and cosmetic laws, State officials enforcing, directory, 5967
import detentions, report, 3465
trade practice rules for industry, 11960
Cosmetologists, *see* Beauty operators.
Cosmic dust, meteoric matter in interplanetary space, 1285
Cosmic rays:
intensities and charge composition of low energy electrons at balloon altitudes, 2413
intensity variations, 6473
research, Musala Mountain Research Station, Bulgaria, 2207
Cosmogony, *see* Universe.
Cosmology, without general relativity, 6423
Cosmonautics, *see* Astronautics.
Cosmonauts:
first on the moon, USSR study, 2184
physiological, acoustic, and cardiac studies based on experience, USSR study, 9137
physiological, etc., examinations of Voskhod crew, results, 12149
COSPAR, *see* Space Research Committee.
Cost:
Agriculture Department, cost reduction program (remarks), 9837
defense contract data, need for audits to detect lack of disclosure prior to award, GAO report, 6014
Defense Department cost reduction program, report 1966, memorandum, 13243
farm cost situation, 629
farm costs and returns—
commercial, by type, size, and location, 12597
commercial Corn Belt farms, 14533
commercial egg farms, 621
commercial egg-producing farms, New Jersey, 14532
commercial, long-term study, 8167
commercial tobacco farms, coastal plain, North Carolina, 10412
commercial tobacco-livestock farms, Bluegrass area, Ky., 14531
commercial wheat farms, Pacific Northwest, Northern and Southern Plains, 14530
illness, estimating, 13966
low cost marketing aids for higher export profits, 4575
marketing, distribution cost analysis, 16819
NASA contractors trim cost, 7749
reduction program and you, Veterans Administration, 5210
reduction program, Defense Dept., examination, 14408A
reduction report, Defense Dept., 2802
unit cost of local service air carriers, 6947, 8380, 11487
western livestock ranches, 14529
see also names of commodities, e.g. Food—*also* subjects.
Cost accounting, *see* Accounts and accounting.

Cost and standard of living:
adjustment in star route contract prices—
reports, 1834, 11781
veto, 12859
improving rural living conditions through new economic opportunities (address), 14127
living costs abroad, Department of State indexes, 2305
winning fight against inflation (remarks), 17799
Costa Rica:
military mission, agreement, 15351
mineral industry, mineral yearbook chapter, 7688
Costigan, Peter J., dynamic-model study of planetary-entry configurations in Langley spin tunnel, 13818
Costrell, Louis, standard nuclear instrument modules, 6862
Costs of world peacekeeping, report, 7104
Costume jewelry, *see* Jewelry.
Costumers, wearing apparel, wood, general, office, Federal standard, 14644
Cote, Charles E., telemetry data frame readout system, 7872
Cote, William A., performance of positive crankcase ventilation systems on automobiles in Cincinnati, Ohio, 15293
Cotton, James A., soil survey report, Fayette County, Ala., 8031
Cotton:
and manmade fibers competition in Japan, 13355
basket-storage systems, California and Texas, costs, 50
boll weevil control in field experiment with machine designed to destroy shed cotton squares, 14106
broad-woven goods, current industrial reports, 249, 2818
cloth, prices of cloth, raw cotton, and mill margins, etc., 3203, 13239
cooperatives on plains of Texas, services and benefits, 5908
cotton and related data statistics, 1925–62, 1965 supplement, 64
cotton situation, 2809
drying and cleaning at gin, effects on fiber, etc., 44
exports, factors affecting, 10410
fiber and processing test results, 2803
fiber properties, seed cotton drying system, experimental and conventional, comparative effects, 6755
fibers and yarn, fiber and processing tests, regulations, 4236
foreign agriculture circulars, 2987
futures trading and open contracts, 3011, 3014
imports of manufactures, foreign trade reports, 2995
in India, 2055
International Cotton Institute, agreement, articles, 12525
man-made fiber staple, and linters, current industrial reports, 2817, 5476
mill margins report, 3203
monthly cotton linters review, 3211
outlook in 1966 (talk), 4289
price statistics, monthly, 2807
prices, spot quotations, 3532
production and distribution, 15564
production, monthly release, 2808
production, 1965 crop, 12706
quality and spinning performance in Mississippi, comparative effects of mechanical picking spindles and handpicking, 3758
quality report for ginnings, 3640
quality survey, fiber and processing tests from selected production areas, annual summary, 8144
reclaiming gin-loss cotton, 11367
Cotton—Continued
regional cotton mechanization research projects S–2 and W–24, references, lists, 14104
research and promotion program—
hearings, 8646, 11784
law, 11594
reports, 7080–81, 11766, 12924
Syrian industry, current situation and outlook, 13353
textiles—
industry wage survey, 14979
tariff schedules annotated, long term international arrangement categories, 8319
trade agreement with—
Colombia, 15367
Greece, 15356
Hong Kong, 1503
Israel, 16863
Japan, 9736
Philippines, 5160
Poland, 15371
Yugoslavia, 6052
Turkey, production, etc., 16319
upland—
cost of producing in United States, 17616
domestic allotment program, statistical summary, 9803
USSR production, report of U.S. technical study group, addendum, 14159
varieties planted, 13236
varieties planted in early producing section of Texas, 10375
variety tests, regional, results, 3727
weekly cotton market review, 3699
what new cotton law will do (address), 8173
see also names of manufactured articles and materials.
Cotton gins and ginning:
consolidated cotton report, 2804
cotton ginnings by counties, 2805
cotton ginnings by States, 2806
drying and cleaning cotton at gin, effects on fiber, etc., 44
equipment, 13235
high-capacity cotton gins, power requirements and costs, 11359
lint cleaning, effects of fiber moisture and amount of lint cleaning, 16943
quality report for ginnings, 3640
reclaiming gin-loss cotton, 11367
Cotton Institute, Chirpan, Bulgaria, 40th anniversary, 17784
Cotton Institute, International, *see* International Cotton Institute.
Cotton machinery, comparative effects of mechanical picking and handpicking on cotton quality, 3758
Cottonseed:
quality, 1965 crop, 13237
seed cotton drying system, experimental and conventional, comparative effects on cotton fiber properties, 6755
Cottonseed meal, *see* Meal.
Cottonseed oil:
futures, commitments of traders, 2764
futures trading and open contracts, 3011
Cottonwood, tips for managing drought-stricken cottonwoods along lower Mississippi River, 4457
Coulee Dam National Recreation Area, general information, 13879
Coules, John, human differential sensitivity to vibrotactile stimulation, etc., 3784
Coulter, Henry W., effects of earthquake of Mar. 27, 1964, at Valdez, Alaska, 6036
Coulter, Olivia W., aging, 2646
Council of Economic Advisers:
act establishing, text, 5594
member, nomination of James S. Duesenberry, hearing, 5799

Council of Economic Advisers—Continued
report—
departmental edition, 5091
document edition, 4063
excerpts, 7210
Council of Scientific Medical Societies, USSR, resolution concerning report on 1958–65 activities of Board of All-Union Society of Oncologists, USSR, 10737
Counseling:
Army recruiting and career counseling journal, 3547
CAUSE [Counselor-Advisor University Summer Education] II prepares 2000 to counsel youth, 662
family counseling in rural community action, 11859
girls, new approaches in 1960's, conference report, 1561
girls, toward new perspectives, 12569
national defense education act program, questions and answers, 653
NDEA institutes for advanced study, manual for preparation of proposals, 13276
psychologists, examination announcement, 9992
State Department of Education personnel, directory, 7301
Counselors:
facts for counselors, trained dental assistants, 2542
guidance, examination announcement, 15630
Job Corps, reference bibliography, 11858
rehabilitation, medicine and medical practice, survey, 12554
rehabilitation personnel, qualified, State vocational rehabilitation agencies, increase supply, guidelines for action, 6692
school, inservice education, 647
school, rehabilitation, and vocational, employment outlook, 9225
scope of pupil personnel services, 16240
Count your benefits, 15414
Countercurrent distribution apparatus, *see* Craig countercurrent distribution apparatus.
Counters, *see* Binary counters—Electronic counters — Ring counters — Scintillation counters—Semiconductor counters.
Counties:
agricultural committee system, extend benefits to employees—
hearing, 7233
report, 16069
agricultural committee system, problems, hearings, 10226
county business patterns, bound volumes—
Alabama-Illinois, 9960
announcement and order form, 14268
Indiana-Missouri, 8350
Montana-Oregon, 9961
Pennsylvania-Wyoming, 14267
U.S. summary, 8349
county business patterns, CBP series, 225–244, 1711–30, 3911–18, 5459–71, 8349–50, 14264–267, 15577–580, 16999–17005
United States summary, 5459
mental hospitals, patient movement, etc., 5029
population migration, 1950–60, analytical groupings, 631
rural, zoning, guide, 11857
sources of milk for Federal order markets, 14511
Counting devices, census, head-counting techniques in premium demand, 1740
Country life:
full utilization of rural resources for better living for more American families (address), 9808
growth country for industry, living country for you, 12601
Coupled reactors, *see* Reactors (atomic).
Couplings:
high pressure tube, requiring no threads or flares, 12325
remotely controlled system couples and decouples large diameter pipes, 12317
shear pin, plugged hollow shaft makes fatigue resistant, 6403
Courses of study, *see* Curriculum.
Court of Claims:
associate judges, provide for 2 additional—
law, 10076
reports, 8552, 8625
cases, calendar, 2810
cases decided—
Aug. 1–Dec. 31, 1963, 599
Jan. 1–Feb. 28, 1964, 1958
Mar. 1–Apr. 30, 1964, 600
May 1–June 30, 1964, 1959
July 1–Oct. 31, 1964, 4239
Nov. 1–Dec. 31, 1964, 4240
Jan. 1–Mar. 31, 1965, 5840
Apr. 1–May 31, 1965, 7249
judgments rendered, 4160
judiciary and judicial procedure, congressional reference cases, reporting, amend U.S. code—
law, 17147
report, 16155
Court of Customs and Patent Appeals:
cases adjudged, weekly report, 3623
customs cases adjudged, 13241
patent cases adjudged, 16204
Court of General Sessions, D.C.:
judges, increase number and retirement salary, report, 10120
judges, increase number, law, 15765
Traffic Branch, establish, and add judges, hearing, 7129
transfer functions from U.S. District Court—
law, 11589
report, 10119
Court of Military Appeals:
court-martial reports, opinions cited, etc., citators and index, 10384
judge, nomination of Robert E. Quinn, hearing, 10323
report, 10381
Courts, court and chronic inebriate, conference proceedings, 834
see also District Courts—State courts—Venue—*also* names of courts.
Courts martial and courts of inquiry:
court-martial reports, opinions cited, etc., citators and index, 10384
Judges Advocates General boards of review and Court of Military Appeals reports, holdings, and decisions, 5645
military justice handbook—
guide for summary court-martial trial procedure, 5350
trial guide for special court-martial president, 5351
special courts-martial, Navy—
instructional guide for presidents, 5065
trial guide for presidents and members, 11153
Courts of Appeals, *see* Circuit Courts of Appeals.
Courts of Military Appeals, court-martial reports, holdings and decisions, 5845
Courts of United States:
appropriations, 1967—
amendments, 8507, 12861
hearings, 15959, 17567
reports, 15938, 17348, 17539
bail practices, revise—
hearings, 1944, 8673
law, 11574
reports, 10163, 10171
copyright decisions, 594
Federal judges, judicial fitness, removal, retirement, and disciplining procedures, hearings, 7222

Courts of United States—Continued
Federal judicial system, study—
authorization, report, 4206
report, 5779
narcotic addicts, dealing more effectively with individuals—
hearings, 11668
reports, 10122, 16163, 17344
register, 10837
see also District Courts.
Cover crops, growing summer cover crops, 35
Covers:
projectile fuze covers, possible savings from improving management control, GAO report, 4501
security, for nuclear weapons, procurement and utilization, Atomic Energy Commission and Defense Dept., GAO review, 16349
tool pre-tensions prior to lacing, 13737
Cowbirds, parasitic, host relations, 18095
Cowlin, Robert W., timber situation and outlook for northwest Oregon, 4479
Cowpens National Battlefield Site, general information, 1329
Cows:
concentrate rations fed, 9741
dairy heifers, how much is she worth? grading system for sales, etc., 15463
farm building plan, free-stall dairy system, 16933
iodine-131 measurement in bovine thyroid, 2535
keeping a cow, general information, 9820
milk cow numbers, 14036
milk, roughage fed—
1965 summer season, 2594
1965–66 winter feeding season, 11283
1964–65 milk production, 6660
see also Dairy herd improvement association.
Coxsackie viruses, coxsackie B infection in mice, parenterally induced, effect of atropine and ether, 78
CPSU, *see* Communist Party of Soviet Union.
Crabs, radiation-pasteurization processes, 11437
Cracking of metals, *see* Fracture of metals.
CRAF, *see* Civil Reserve Air Fleet.
Craft, Richard W., jr., soil survey of Marlboro County, S.C., 6618
Craft (nautical):
small, Federal item identification guides for supply cataloging, supplements, 2940
small, ventilation systems, 11508
Crafton, P. A.:
determination of deck motion aircraft carriers, 1354
directional equilibrium of artificial satellite enveloping nonuniform region of gravitational field, 5072
Crafts, Edward C.:
remarks—
Mar. 10, 1966, 6557
Mar. 11, 1966, 6558
Sept. 6, 1966, 15254
Sept. 21, 1966, 16773
Crafts, *see* Arts and crafts.
Crafts, protective and custodial employees, *see* Government officials and employees.
Craig, Calvin F., proceedings against, report, 5652
Craig countercurrent distribution apparatus, duty-free entry, 377
Crambe abyssinica, 1945–65, bibliography, 14543
Crambidae, *see* Moths.
Cranberries, indicated production, 1966, 15377
Crandell, Dwight R., rockfalls and avalanches from Litle Tahoma Peak on Mount Rainier, Wash., 2092
Crane, Hewitt D., visual accommodation system in humans, 16612
Crane, Theodore, farm index, 2909
Cranes (birds):
hunting, possession, transportation, importation in Alaska, 1966–67, Federal regulations governing, 14673
Cranes, derricks, etc., safety switch permits emergency bridge crane shutdown, 9475
Crary, J. H., normal phase variations of 16 kc/s signals from GBR observed at College, Alaska, 1297
Crash trucks, *see* Firefighting vehicles.
Crashes, *see* Aircraft accidents.
Crater Lake National Park, general information, 11124
Craters:
high-velocity impact, in ablative heat-shield materials, determination temperature and material effects, 16689
lunar, formation, inapplicability of Baldwin's correlation to determination of causes, USSR study, 4639
Project Pre-Schooner II, subsurface effects measurement, 14237
terrestrial impact structures, bibliography, 16356
Craters of the Moon National Monument, general information, 6504
Cream, fluid milk and cream report, 2981
Creatinuria, postirradiation, in Macaca mulatta primates, 14190
Creativity:
elementary and secondary education act, PACE, projects to advance creativity in education, supplementary centers and services, etc., 5879
PACE projects to advance creativity in education, supplementary centers and services—
programs, 639
project applicants manual, 649
Credit:
and real estate demand (remarks), 2024
consumer's quick credit guide Spanish edition, 1606
department store, monthly report, 2851
Federal programs—
alleviate tight money (remarks), 16888
financial management in Great Society (remarks), 16882
study, print additional copies, reports, 12999, 17474
housing, code of Federal regulations, 10491
master or servant, Defense Dept. pamphlet, 14206
monetary policy and allocation of commercial bank credit (remarks), 14637
mortgage, for residential construction, stimulate flow, hearing, 14474
private financing—
message from the President, 8505
participation sales act—
authorizations, 1967, proposal, 11697
hearings, 8681, 10236, 10267, 10331
law, 10080
reports, 8616, 8746, 10145
remarks, 9752
recent credit and monetary developments, 14638
sales finance companies, monthly report, 3488
sales of financial assets by Government agencies, submission of data, regulations, 14050
servicemen's problems, hearing, 17367
social enterprises, Bulgarian study, 13581
suspension of investment credit, hearing, 17400
Vietnam, Democratic Republic, 2182
see also Agricultural credit—Banks and banking—Installment credit—Retail credit.

Credit insurance:
health, accident, and life, for student loans, increase maximum amount allowable for student loans in D.C.—
law, 17108
report, 15852
Indians, guaranteed and insured, for financing economic enterprises, report, 17211
Credit unions:
growth in rapidly changing financial environment (remarks), 10511
rural community action, 8823
rural, of U.S., general information, 4350
rural, organization, services, etc., 7347
see also Federal credit unions.
Creel, Theodore R., jr., longitudinal aerodynamic characteristics of tension shell entry configuration, 15159
Creep in model pillars, 4790
Creep-of-metals, columbium and tantalum alloys, ultrahigh-vacuum creep behavior at 2000° and 2200° F, 4960
Creeping flow solution of Leidenfrost phenomenon, 2419
Creighton, C. S., field evaluation of chemical compounds for control of cabbage caterpillars, 14100
Cretaceous period, Lower Cretaceous (Albian) ammonite genera Leconteites and Brewericeras, 2104
Creveling, Cyrus J., comparison of performance of PCM and PFM telemetry systems, 15142
Crew leaders, farm, social security information, 6604
Crew leaders' handbook, civil defense survey, 11461
Crewmen, *see* Spaceship crewmen.
Crews, John H., jr., local plastic stresses in sheet aluminum-alloy specimens, 4914
Crews, *see* Flight crews—Spaceship crews.
Crichlow, W. Q., quarterly radio noise data, 5010, 6477, 11096, 13860
Crime and criminals:
application of neutron activation analysis in scientific crime detection, 6852
bail reform act—
hearings, 8673
law, 11574
reports, 10163, 10171
crime prevention and you, 12056
criminological distinction of similar handwritings by computers, USSR study, 14864
District of Columbia crime and criminal procedure bill, report, 17330
Federal procedures, modify, hearings, 1944
greater freedom for law enforcement agencies, national debate proposition for colleges, excerpts, etc., 466
Indians, crimes committed in Indian country, amend U.S. Code, report, 17554
international bibliography on crime and delinquency (periodical), 3074
miscellaneous bills, hearings, 13221
national strategy against crime, message from the President, 5623
persons under supervision of Federal probation system, 14098
scientific crime detection, use of neutron activation analysis, summary report, 5390
uniform crime reporting handbook, 13311
uniform crime reports, 1965, U.S., 13312
uniform reporting, quarterly release, 3636
violence and crime portrayed on television, effects on young people, report, 1924
see also Conspiracies—Criminal law.
Crime in District of Columbia, President's Commission on, *see* President's Commission on Crime in District of Columbia.
Criminal investigators:
examination announcement, 3974
suspension notice, 5522
Criminal jurisdiction:
NATO status of forces agreement, operations—
hearing, 17572
report, 17561
Criminal law:
cybernetics and criminal law, USSR study, 16508
District of Columbia laws, amend, law, 447
miscellaneous bills, hearings, 13221
obstruction of criminal investigations, prohibit, amend U.S. Code, report, 17477
refusal to testify, compelling of testimony and granting immunity in certain crimes, amend U.S. Code, report, 16108
study, expenses, report, 4189
Criminal procedure:
appellate review of sentences, provide, hearings, 10352
contempt to publish information not properly admitted in criminal cases, hearings, 4225
District Court rules adopted by Supreme Court, 5615
District of Columbia crime and criminal procedure bill, report, 17330
imparting or conveying false information, reduce existing penalty, report, 1913
miscellaneous bills, hearings, 13221
rules for District Courts, as amended, 13052
study, expenses, report, 4189
see also Habeas corpus.
Criminals, *see* Crime and criminals.
Criminology, *see* Crimes and criminals.
Critchfield, William B., geographic distribution of pines of world, 5293
Critical assemblies:
Ichiban, neutron and gamma-ray leakage, 12671
pulsed, literature search, 1684
Critical mass:
zero power reactor II, studies, 1263
zero power reactor, ZPR–II, studies, 15167
Critical parts are stored and shipped in environmentally controlled reusable container, 12300
Critical path analysis, and scheduling applied to mining operations, 7709
Critiques:
Soviet, of Anglo-American oil interests, 17771
writings of Valeriy Tarsis, 6146
Croatia, science workers, awards explained by committee, 10806
Croatian language, *see* Serbo-Croatian language.
Crocidolite asbestos, *see* Asbestos.
Crockett, Warren R., new design approach for wide-range temperature monitoring and compensating networks in scientific satellites, 16681
Croeni, Jack G.:
high-energy-rate extrusion of low-density tungsten powder billets, 16574
high energy-rate forging and extrusion and effect on structure and properties, 9378
Cron, Theodore O., American education, 2677
Cronartium comandrae, *see* Comandra blister rust.
Crookton, Ariz., railroad accident, 6094
Croom, Bobby H., thermodynamic, transport, and flow properties for products of methane burned in oxygen-enriched air, 17891
Crop insurance, *see* Agricultural insurance.
Crop lands, *see* Land.
Crop Reporting Board, reports released, 1966 issuance dates and contents, 5176
Crops:
agricultural, large-scale development of land improvement to obtain high and stable yields, USSR study, 12156
alternate, planting on acreage unplanted because of natural disaster—
law, 11560
reports, 10167, 11618

Crops—Continued
central Great Plains, windbreaks, how to use trees to protect crops, 4485
crop production (periodicals), 2811
crop reporting, 1st century, 15473
Federal reclamation projects, 1965 report, 18087
statistical appendix, 15317
field and seed, production, farm use, etc., by States, 11282
field seeds, acreage, yield, etc., 5175
foreign crops and markets (periodical), 2986
Horticultural Crops Research Branch publications, reference list, 8138
insecticides, guide, 9814
major field crops, regional location of production at alternative demand and price levels, 1975, linear programing analysis, 8172
new varieties, 5927–31
planting on acreage diverted under cotton, wheat, and feed grains program, amend law—
hearings, 8647
report, 17208
plantings, prospective, 8088
report, 1866–1966, development and progress, 15378
research, results of field applications of herbicides for control of saltcedar (Tamarix Spp.), 5265
research, scientific careers, 1594
seed crops—
acreage, yield, production, etc., 5179
forecast, 3500
prices, 3501
stocks report, 3502
weather and crop bulletin (periodical), 3703
world summaries of statistics, lease date announcement, 4433
see also names of crops.
Crosby County, Tex., soil survey report of area, 6617
Cross-Florida Barge Canal, Silver Springs lock, rename R. N. Bert Dosh lock, law, 15754
Cross reference index to manual of Navy officer classifications, 5063
Cross-references within Internal revenue code of 1954, as of Jan. 1, 1965, 1879
Cross sections:
neutron, technology, conference proceedings, 15528
resonant charge exchange in nitrogen and argon, measurements, 4980
see also Neutron capture cross sections.
Crossett Experimental Forest, farm forestry forties, 1965, harvest, 10589
Crosslinking, thermal and mechanical properties of thermoplastic and phenolic resin systems, 10396
Crossman, E. R. F. W., automation, skill, and manpower predictions, 17802
Crow, Eron E., soil survey, Bamberg County, S.C., 8033
Crow Creek Reservation, soil and range resources inventory, 9031
Crow Indians, compensate Crow Tribe of Indians, Montana, for lands erroneously excluded from reservation by survey, report, 12948
Crowell, D. C., efficiency of gas displacement from water-drive reservoir, 7708
Crown Savings Bank:
failure, investigation—
hearings, 1850
staff report on hearings, 10235
CRREL, *see* Cold Regions Research and Engineering Laboratory.
CRS, *see* Community Relations Service.
CRT, *see* Cathode ray tubes.
Crude oil, *see* Petroleum.
Cruelty to children, *see* Children.
Cruff, R. W., cross-channel transfer of linear momentum in smooth rectangular channels, 825
Cruises:
foreign operators, require licenses, hearings, 13204
operators, require to file evidence of financial security, etc.—
hearings, 13204
reports, 14466, 17320
travel and Federal Government (remarks), 701
Crushed stone, *see* Stone.
Crustaceans, copepod, parasitic on elasmobranch fishes of Hawaiian Islands, 9567
Cruz, Oscar Valdes, *see* Valdes Cruz, Oscar.
Cryogenics:
adhesive for cryogenic applications cures at room temperature, 9485
bismuth alloy potting seals aluminum connector in cryogenic application, 7792
container, lightweight door seals against diaphragm type loading, 4891
environment, properties of large 7079 aluminum allow forgings, 12271
fiber-glass propellant tanks—
filament wound, use of bonded plastic tape for lining, 4950
use of glass flakes as liner, 4893
use of thin films as floating liners, 4949
high pressure liquid flow sight assembly for easy observation, 15124
hydrogen flowing in tubes at subcritical and supercritical pressures at 800 pounds per square inch absolute, experimental heat transfer results, 7815
inexpensive insulation effective for cryogenic transfer lines, 13783
insulation for tanks, reduced thickness and weight, 12292
liquid level, maintaining with charged probes, 9459
liquid propellant, insulation from heat leak by propellant and its sacrificial boiloff, 9508
liquid transfer system reduces residual boiloff, 9469
liquid, undamped bellows face seal during dynamic instability, 4944
liquids from tanks, gas diffuser facilitates withdrawal, 13777
nickel-beryllium alloy, tensile properties at cryogenic temperatures, effect of cold reduction, etc., 4942
O-rings with Mylar back-up provide high-pressure cryogenic seal, 12319
optical gyro pickoff operates at cryogenic temperatures, 7784
propellant tank pressurant requirements, studies, 6419
special 301-type stainless steel improved for cryoformed pressure vessels, evaluation, 11067
strength comparison of flawed single-layer and multi-layer AISI 301 stainless-steel pressure vessels at cryogenic temperatures, errata, 7812
temperatures, bimetallic devices help maintain constant sealing force, 13760
trap valve has no moving parts, 7790
whole sampling conditions, determination and microbial survival, 2369
Cryolite, minerals yearbook chapter, 17836
Cryology, research institute needed, USSR study, 991
Cryopumping, solid nitrogen formed, 15058
Cryostats:
modified to aid rotating beam fatigue test, 7760
vacuum chamber provides improved insulation and support, 2387
Crystal diodes, zener diode controls switching of large direct currents, 1225
Crystal rectifiers, *see* Rectifiers.

Crystallization:
amorphous boron powder by zone refining, pre-purification of boron before zoning, 11436
automatic sugar processes, ultrasonic method of analyzing crystal-containing mass, USSR study, 10795
Crystallography, fractional crystallization of basaltic magma as revealed by chronological changes in lava composition during major volcanic eruption, study, 7488
Crystals:
aluminum oxide, single crystal and polycrystalline, in contact in vacuum, friction characteristics, 15190
beryllium in vacuum, effect of orientation on friction characteristics, 12358
calculation of processes caused by introduction of ice crystals into supercooled small drop clouds, USSR study, 1067
crystal hydrate method for desalting of water, USSR study, 2202
growth and characterization, research at NBS, 16716
hexagonal structures, provide improved friction and wear characteristics in bearing alloys, 15103
ice, nucleation and growth, 4552
ice, single—
migration of liquid inclusions, 6833
self-diffusion, 8239
industry, machinery, industrial plant equipment handbook, 10388
manganese sulfate, recovery from solution by submerged combustion evaporation, etc., 9382
polar, absorption in X-ray spectra, USSR study, 1050
quartz, in jasperoid, petrofabric analysis of overgrowths, 9013
single-crystal semiconductor films grown on foreign substrates, 11019
tungsten, influence of grain orientation on friction characteristics, 4970
tungsten with rhenium in dilute solid solution, tensile behavior, 4937
CSRS series, 5836
Ctenopharyngodon, white amur, breeding in Amu Darya River basin, 4627
Cuba:
claims of U.S. nationals against Government, text of act, regulations, etc., 4434
hydrometeorology, USSR study, 14872
oceanographic studies, Russian-Cuban, 16489
translations, 3600
Cubans:
refugee problem, hearings, 13222, 14494
refugees, assistance, appropriations, 1967—
hearings, 13014, 17568
reports, 15915, 16159, 17263
status, adjustment, hearings, 14430
Cuervo, Jose R., relief, 13105
Cuing techniques, training tasks, phase 2, 7971
Culling hens, 15444
Culture:
contemporary, questions for creative engineer (address), 5548
cultural affairs and foreign relations, Air Force Academy assembly, final report, 14165
cultural relations, maintenance with Ukrainians living abroad, USSR study, 4593
educational and cultural diplomacy, 1964, 1490
era of educational and cultural relations (lecture), 12524
exchange, international, 1966—
spring, 11335
winter, 8122
influence on children, research programs, studies in progress, 12734
Culture—Continued
international activities, multilatural and regional organizations, 18121
international information and cultural series, 1490, 18119, 12524
international meetings, world list, 3717
materials, importation agreements, implement—
hearings, 11692
law, 17138
reports, 12978–979, 17500
presentations, USA, report, 18119
socialism and cultural heritage, USSR study, 17787
Culture media, process of continuous culturing of microalgae, mathematical description, USSR study, 4624
Culvert pipe, *see* Pipe and pipe fittings.
Culverts:
highway, hydraulic charts for selection, 5132
pressures, Greenup Lock, Ohio River, Ky., hydraulic prototype tests, 16249
Cumberland Escarpment, interpretation, 6034
Cumberland River, Cordell Hull Navigation Lock filling and emptying system, hydraulic model investigation, 16251
Cumings, Roy E., preparation of high-purity molybdenum by molten salt electrorefining, 17859
Cummings, Laurie D., employed poor, their characteristics and occupations, 10877
Cummins, David G., chemical and physical properties of spoil banks in eastern Kentucky coal fields, 5990
Cummins, R. S., jr., spillway for typical low-head naviagation dam Arkansas River, Ark., app. A., gate sills and stilling basins for locks and dams 5 and 7, 1991
Cundiff, George F., vocational potential for vocational rehabilitation staff, 5216
Cunningham, Frank E., air-layering sugar maple, 4470
Cuppett, Donald G.:
air-drying practices in central Appalachians, 17703
how to determine seasoning degrade losses in sawmill lumberyards, 788
Cuprous selenide, *see* Copper selenide.
Cuprous sulfide, *see* Copper sulfide.
Curandero de la tribu Shoshone, Thermopolis, Estado de Wyoming, 15409
Curcio, J. A., atlas of absorption of atmosphere, 6553
Curran, Elizabeth W., report of international conference on perinatal and infant mortality problem, 12486
Currency, *see* Money.
Current discharge at selected stations in Pacific Northwest, 3543
Current export bulletin, 2815
Current fishery statistics, E.F.S. series, 738–745, 2034–35, 2672, 2724, 2976–77, 2980, 3008, 3022, 3029, 3171, 3174, 3185–86, 3194, 3205, 3260, 3267, 3276, 3480, 3516, 3522, 3575, 3683, 4399–4401, 5961–62, 7430–32, 8934–38, 10518–522, 13334–341, 16294–296, 17672–673
Current housing reports, 2816
Current industrial reports, 246–265, 1731–35, 2817–18, 3179, 3920–24, 5472–85, 6920–23, 8351–57, 9962–63, 11463–466, 12707–723, 15581–590, 17006
Current population reports, 2819
Current projects on economic and social implications of science and technology, 16741
Current retail reports, 2820, 14279
Currents, *see* Electric currents—Lake currents—Ocean currents.
Curriculum:
adult basic education, guide, intermediate level, 10419
approach to independent study, 4313
colleges and universities, courses in oceanography, 1965–66, 17650

Curriculum—Continued
foreign specialists, overseas projects in education, 14553
industrial arts, survey, 13274
life sciences in space age setting, upper elementary-junior high school, 12263
manned space flight, Projects Mercury, Gemini, and Apollo, suggestions for lesson planning, 6350
national defense education act, student loans, college-work-study program, and list of participating institutions, 1965–66, 7316
Naval Reserve Dental Companies, 13902
Naval Reserve training program, radioman 3d class, 13903
patterns in English, undergraduate requirements for English major, 637
2-year post high school for civil technology, highway and structural options, 11868
undergraduate patterns, baccalaureate programs, 4320
see also Activity programs.
Curry, Donald M., charring ablation thermal protection system, 2432
Curry, Rembert L., investigation of proprietary chemical admixture for concrete, 7334
Curtiss, H. C., jr., analytical study of dynamics of aircraft in unsteady flight, 3837
Curvature (mathematics):
nature of curved space, USSR study, 4614
Curves, *see* Curvature (mathematics).
Curves (drafting):
CBR (California Bearing Ratio) design set, developing, errata, 677
Cushman, R. V., water resources of Waterbury-Bristol area, Conn., 823
Cushwa, Charles T.:
one prescribed burn and its effect on habitat of Powhatan Game Management Area, 16329
response of herbaceous vegetation to prescribed burning, 10586
Custodians, cleaning services, military standard, 11852
Customer speaks her mind, remarks, 3749
Customs, *see* Tariff.
Customs Court:
cases adjudged—
Customs Court reports, 8794
in Treasury decisions, weekly report, 3623
Customs districts:
by continent, U.S. airborne foreign trade, summary report, 3642, 11481
code classification used in compiling U.S. foreign trade statistics, schedule D, 3936 changes, 5457
exports, summary reports, 3644
imports, summary reports, 3647
Cut stone, *see* Stone.
Cutlery, census of manufactures, 1963, industry report, 5447
Cutting of metals, *see* Metal cutting.
Cutting tools:
adjustable cutting guide aligns and positions stacks of materials, 11004
threaded pilot insures tool alignment, 6400
tool post modification allows easy turret lathe cutting-tool alignment, 11000
see also Pipe cutters.
Cuttings, *see* Reproduction.
Cybernetics:
abstracts journal (USSR periodical), excerpts, 10732, 10782, 12161
application of game theory and cybernetics in economics, USSR study, 6212
application to enhance effectiveness of scientists and engineers, USSR studies, 9106
applied, forthcoming works, USSR study, 9181
biological, mathematical apparatus, USSR study, 10705
biology, USSR study, 2233
Cybernetics—Continued
central ideas and philosophical principles, USSR study, 9094
clam chowder, cybernation and collective bargaining (remarks), 5036
clinical medicine, USSR book, 2218
collective bargaining and cybernation (remarks), 6494
Communist Chinese abstracts, 2770
contribution to economic development, 10775
control of social processes and cybernetics, USSR study, 1053
control theory—
assymptotically optimal systems, learning optimal control, USSR study, 10717
USSR studies, 13475, 14853
criminal law, USSR study, 16508
cybernation, people eaters or prosperity makers? (remarks), 1320
cybernetics and automation, USSR studies, 14810
cybernetics and brain, USSR studies, 9132
cybernetics and mental labor, USSR study, 896
East European abstracts, 2867
East German machine-building industry, production planning analysis aids, 12180
hampered by inadequate study of linguistics, USSR study, 9104
helps pedagogy, USSR study, 13522
heuristics and cybernetics, USSR study, 6122
industry, USSR study, 12130, 14802
integrative activity of brain, USSR study, 16436
international conference, science and society, held in Herceg-Novi, Yugoslavia, 13508
interview with Lenin prize winner, Viktor Glushkov, USSR, 14857
linguistics, Hungarian study, 4674
management problems from viewpoint of cybernetics, USSR study, 1052
medical, Czechoslovak achievements, automatic diagnosing of diseases, 4681
medicine, USSR studies, 684, 2266
modernization of measuring techniques through cybernetics, USSR studies, 959
philosophy and cybernetics, problems, USSR studies, 938
predicting devices, USSR study, 16449
principles of machine diagnosis, USSR study, 1054
problems, USSR studies, 1072, 6193
production management, USSR study, 12185
programmed teaching, USSR study, 13554
research in Ukrainian Academy of Sciences, USSR, 7632
research, USSR articles, 2162
reviews of new Soviet books, 13484
social aspects, USSR study, 6160
society, 14908
sports, electronic trainer, use by laboratory for research, USSR study, 6164
systems, experimental and practical applications, USSR study, 16401
technical—
Academy of Sciences USSR, news, 1035, 2221, 6213, 10811
large systems, theory, USSR studies, 14815
self-learning pickups, self-adaptive systems and other problems of technical cybernetics, USSR study, 13473
USSR periodical, translations, 16466
USSR 3d All-Union conference on automatic control, 2169
USSR translation, 14862
theoretical, problems, USSR study, 4665
Ukrainian research, status and outlook, 10721

Cybernetics—Continued
USSR—
abstracts, 3673
all-Union scientific session devoted to radio day, 13520
books, 2262
conferences, 4631, 6159, 6188
institutes, news, 6218
medical interest, 6197
Navy, 6205
news, 1045, 2235, 6179, 13519
studies, 904
viewpoint, evolutionary role of division into 2 sexes, USSR study, 14846
views of A. I. Berg, USSR Deputy Minister of Defense, article, 9167
without mathematics, USSR book review, 13546
Cybernetics (USSR periodical):
translations, 2196, 7546, 10819
Cycles (business), *see* Business cycles.
Cycling, *see* Thermal cycling.
Cyclopentitols, and related substances, progress report of Organic Chemistry Section, July 1965–June 1966, 17944
Cyclotron waves in collisionless plasma, 2366
Cyclotrons:
ion-cyclotron waves, radiofrequency power transfer in collision-free magnetoplasma, 7876
NRL program, progress report, 13911
report, calculations on uniform-field bending magnets, 1359
Cylinders:
axially compressed, influence of imperfections, etc., on buckling, 9406
boundary conditions influence on buckling load of cylindrical shells under axial compression, 15061
buckling coefficients for sandwich cylinders of finite length under uniform external lateral pressure, 2059
buckling of cylindrical shells of sandwich construction, effect of face-sheet stiffness, 11074
buckling of eccentrically stiffened orthotropic cylinders under pure bending, 7869
comparison of experimental and theoretical stresses at mismatch in circumferential joint in cylindrical pressure vessel 16676
cone-cylinders, linear aerodynamic loads, 7735
eccentrically stiffened, buckling, experimental and theoretical results, 16694
filament-wound—
elastic moduli determination, experiments, 1273
loaded in axial compression, determining strength, 13829
heterogeneous arrays of cylindrical voids, critical mass studies with NASA zero power II, reactor, 15167
hollow, internally heated, plane thermoelastic deformation, 4985
imperfect, buckling under axial compression, 15051
inflated thin-wall beams, theory, 12348
large diameter ring-stiffened corrugated, bending tests, 7856
mating, securely joined with flexible coiled spline, 9479
modal characteristics of cylindrical shells, analytical methods used to determine, 16618
multiple hydraulic leveling, controlled by rotary valve, 16625
ogive—
drags due to 2-dimensional fabrication-type surface roughness, 15151
pressure distributions due to 2-dimensional fabrication-type surface roughness, 15148
Cylinders—Continued
open-ended circular cylindrical microwave cavities, analysis, 12369
precision winding of cylindrical composites with shaped glass filaments, 15038
pressurized, elastic stresses at mismatched circumferential joint, 16677
ring-stiffened circular, loaded by uniform external pressure, buckling and postbuckling tests, 1274
ring-stiffened corrugated, general instability under axial compression, 4902
shells—
axisymmetric response to time-dependent loading, 15069
buckling of end closures by internal pressure, 13718
short cylindrical chamber, velocity components and radial pressure distributions, experimental profiles, 1254
slotted infinite, pattern synthesis problem, 9422
swept, interference heating in region of intersection with wedge, 2411
thin-wall tank, longitudinally excited, transfer function analysis of fluid contents, 16692
truss-core sandwich cylinder loaded to failure in bending, test, 4916
Cylindrical claw clamp has quick release feature, 11007
Cyprus:
agricultural economy in brief, 14544
background notes, 1482
foreign trade regulations, 4007
labor conditions, 13626
mineral industry, minerals yearbook chapter, 1120
Pravda sees threat of United States deal, USSR study, 10827
United Nations use of peacekeeping forces, 5693
Cytochemistry, cytochemical technique for studies on B.antracis and B.cereus antigens, USSR, 10833
Cytology:
autoregulation in cytology and cytochemical studies of nerve cells, USSR articles, 977
cytological examinations, stomach cancer cells, signs of atypicality, USSR study, 9148
gynecological exfoliative, manual, 2313
Czapowskyj, Miroslaw M., survival and early growth of planted forest trees on strip-mine spoils in anthracite region, 10600
Czarnecki, K. R.:
pressure distribution due to 2-dimensional fabrication-type surface roughness on ogive cylinder at transonic speeds, 15148
pressure drags due to 2-dimensional fabrication-type surface roughness on ogive cylinder, 15151
roughness drag at supersonic speeds, 16669
Czechoslovakia:
and space research, 16435
automatic computers, produce or import? 9135
automatic diagnosing of diseases, medical cybernetic achievements, 4681
background notes, 12516
church and state under Communism, 7219
economy, basic data, 12773
Hungary boundary, study, 11257
labor conditions, 13627
leather work shoes, determination of no injury to U.S. industry, 14043
medical equipment, exhibition in Moscow, 4642
membership of Slovak group of Slovak Academy of Sciences in Czechoslovak Chemical Society, 2261
mineral industry, minerals yearbook chapter, 1121

Czechoslovakia—Continued
provincial press, summary, 3558
regulations published in Sbirka zakonu CSSR, 1965, subject index, 9139
Scientific Conference on World Literary Avantguard in Smolenitsy, 10719
Czul, E. C., load-carrying terminals for armored electric cables, 2493

D

D.A.R., *see* National Society of Daughters of American Revolution.
D-Day plus 20 years, June 6, 1944–June 6, 1964, 11685
D.H.I.A., *see* Dairy herd improvement associations.
D.S.A., *see* Defense Supply Agency.
D series, 8797
Daane, J. Dewey:
remarks—
Dec. 7, 1965, 727
May 12, 1966, 8924
July 14, 1966, 11951
Dabul, Amadeo, information transfer systems in space communications, 9530
Dade County, Fla.:
Inter-American Cultural and Trade Center, U.S. participation, provide—
law, 5581
report, 5653
Dahomey, mineral industry, minerals yearbook chapter, 9362
Dai, Yin-ben, designs for rubble-mound breakwaters, Dana Point Harbor, Calif., 14575
Dairy cattle, *see* Cattle.
Dairy farms, *see* Dairying.
Dairy goat for home milk production, 15446
Dairy herd improvement associations:
DHIA cow performance index list, registered progeny of DHIA sires, 5269
national cooperative program, 2838
sire summary lists, 11, 6713–14, 12581
Dairy industry, *see* Dairying.
Dairy plants, *see* Dairying.
Dairy products:
annual statistical summary, 6661
census of manufactures, 1963, industry statistics, 6888
dairy products companies, 1959–64 ownership changes made, 14539
how to use USDA grades in buying, 16936
manufactured products, 1965 production, 14038
market statistics, 6781
storage life, 5970
see also Milk.
Dairying:
ASCS program, 6737
dairy farm operated by Naval Academy, Annapolis, Md.—
disposal, proposal, report, 17362
GAO report, 7471
dairy farming, simulation technique for making management decisions, 5864
dairy-herd-improvement letter, national cooperative improvement program, 2838
dairy industry, organization and competition, 16725–726
dairy plants surveyed and approved for USDA grading service, list, 16200
dairy situation (periodical), 2839
economics of dairy marketing, bibliography, 13264
farm building plan, free-stall system for 101 cows, 16933
foreign agriculture circulars, 2987
pasture season, 1507
Dale, Robert F., California, climates of States, 13299
Dales, Sophie R.:
benefits and beneficiaries under public employee retirement systems, 9657
preliminary review of 1964–65 Federal grants, 8027
Dallas, Tex.:
area wage survey, 6262
principal electric facilities, map, 7379
Dallas Creek project, construct and operate, Interior Dept. report, 12853
Dalle Mura, P. H., ultra-low-noise 1700 Mc parametric amplifier system, 7859
The Dalles Dam, fish passage reports, 667, 11888
Dalrymple, Dana G., directory of publications available on foreign trade and markets, 14625
Dalrymple, Glenn V.:
effects of 400 Mev protons on primates, radiations of space, 5327
kinetics of recuperation following 55 Mev proton irradiation, 5335
relative biologic effectiveness of 138-Mev protons as compared to Co^{60} gamma radiation, 94
some effects of 138 Mev protons on primates, 1621
Dalton, Charles C., meteoroid puncture experiments, 6431
Dalton, Leonard J., relief, 15799
Daly, Dorothy B., closing the gap in social work manpower, 6046
Dalzell, Robert W., face ventilation in underground bituminous coal mines, performance characteristics of common jute line brattice, 6317
Damadian, Raymond, potassium transport mutant of Escherichia coli B, etc., 8215
Damage control, impact- and puncture-resistant material protects parts from damage, 15105
Damages, *see* Claims.
Dampers:
conceptual design for Mars entry vehicle, 15042
floating ring, behavior in flexible supports, 136
Damping:
aerodynamic—
and oscillatory stability in pitch for model of typical subsonic jet-transport airplane, 4918
pitch and yaw of Gemini configurations, 7854
capillary waves at air/water interface, 6549
characteristics of built-up cantilever beams in vacuum environment, 1251
fluid, use in reducing bellows seal fatigue failures, 11041
friction device damps linear motion of rotating shaft, 4867
fundamental damping law for fuel sloshing, 6429
moment of inertia and damping of liquids in baffled cylindrical tanks, 6334
nonlinear oscillations, 16709
technique gives accelerometer flat frequency response, 13732
transfer function analysis of fluid contained in cylindrical tank, 16692
Damping of vibration, *see* Vibration.
Dams:
dams for reclamation, 16816
earth embankment pore pressures during construction, 10446
rock check, design, construction and cost, 13372
St. Clair River, submerged rock weirs, adequacy to withstand propeller wash, hydraulic model investigation, 11896
TVA dams and steam plants, 8098
see also names of dams or bodies of water.
Dan River Mills, wage chronology, 9336
Dana, John L., west coast sawmilling, 2296
Dana Point Harbor:
design for optimum wave conditions, hydraulic model investigation, 13295
designs for rubble-mound breakwaters, hydraulic model investigation, 14575
Dance, William E., bremsstrahlung production in aluminum and iron, 2359

Dancers, occupations, employment outlook, 9257
D'Andrea, Dennis V., prediction of compressive strength from other rock properties, 2351
Dane, Carle H., stratigraphy, Juana Lopez member, Mancos shale, San Juan Basin, N. Mex., 9014
Dane, Genevieve O., grant programs, 7309
Dangerous articles, *see* Hazardous substances.
Daniel, Michael F., relief, 8517, 12813, 13109
Daniel', Yu:
  condemnation of Soviet author, 6103
  Soviet author, trial, remarks by Western critics, 9084
D'Anna, Philip J., evaluation of self-sealing structures for space vehicle application, 10953
Dannenberg, Raymond O., beryllium recovery from fluoferrate leach residue, 16584
Dante Alighieri, lectures concerning Dante and his works, 2306
DAR, *see* National Society of Daughters of American Revolution.
Darling, Robert C., cable length determinations for deep-sea oceanographic operations, 14314
Darnell, Wayne L., radar cross section and optical radiation from Trailblazer IIa9° half-angle blunt nose cone during hypersonic reentry, 4956
Data, *see* Subjects.
Data converter and display system for Wisconsin experiment on Orbiting Astronomical Observatory, 17929
Data loading routine for IBM 7094 and 7094–704X systems, 7811
Data processing, *see* Electronic data processing systems.
Data storage and retrieval systems, *see* Information storage and retrieval systems.
Data transmission system:
  adaptive compression for video signals, 9523
  coding techniques, USSR articles, 4637
  compression of video data by adaptive nonlinear prediction, 13813
Datos informativos sobre Estados Unidos, 15403
Daubert, H. C., spacecraft digital stabilization and control system study, 13713
Daughters of American Revolution, National Society of, *see* National Society of Daughters of American Revolution.
Dauman, Alexander, selling in France, 344
Davenport, Iowa, area wage survey, 4725
David D. Terry Lock and Dam, name, law, 438
Davies, Mary, Federally-assisted manpower development programs, etc., 10840
Davis, Billy R., terrain analysis by electromagnetic means, laboratory investigations, 680
Davis, Charles T., jr., relief, 4075, 14334, 16012
Davis, Edward G., recovery of manganese from slag formed by selective oxidation of high-manganese pig iron, 6319
Davis, Jeanne M., uses of airphotos for rural and urban planning, 11348
Davis, L. E.:
  Mineral industry of—
    California, 2322
    Nevada, 1136
Davis, Paul A., TIROS radiation measurements and variations in atmospheric heating, 17874
Davis, R. E., Project Handcar, geology and surface effects, 3849
Davis, Robert E., random pressure excitation of shells and statistical dependence effect of normal mode response, 1180
Davis, Robert T.:
  snow surveys, 3746
  water supply outlook and Federal-State-private cooperative snow surveys for Washington, 3694
Davis, Rogers F., determination of oxides of nitrogen in diesel exhaust gas by modified Saltzman method, 12249
Davis, Ross D., nomination, hearing, 13230
Davis, Sallie M., relief, 4075, 14334, 16012
Davis, Thomas L., introduction to sampled data and switching logic, 9556
Davis, W. True, remarks, Oct. 5, 1966, 16883
Davis, Walter D., computer program to improve STADAN station scheduling, 9501
Davis, William G., determination of heat-shield char-front recession with nucleonic technique, 9511
Davis Strait, sailing directions, change, 7955
Dawes, Richard E., mineral industry of Illinois, 2327
Dawson, David H., performance of 7 seed sources of blue spruce in central North Dakota, 14704
Dawson, John A., hydromagnetic wave propagation near 1 c/s in upper atmosphere and properties and interpretation of Pc 1 micropulsations, 15211
Day, Delbert E., thermal stabilization of soils, 4344
Day, James V., remarks, Dec. 3, 1965, 701
Day, W. C., cloud development studies, 15538
Day care of children:
  child development center concept, relationship to preschool and day care, 4267
  educating disadvantaged children under 6, 5871
  nursery enrollment of children under six, 10428
  services, why, what, where, when, how, 8373
  spotlight (address), 8113
Daylight saving:
  uniform dates for commencing, etc.—
    hearing, 5697
    law, 8463
    reports, 5678, 7089, 8573
Days, *see* names of special days.
Dayton, R. W., reactor materials, review of recent developments, 3453
Dayton, Ohio:
  area, ground water resources, 9022
  commodity transportation, production area series, 9956
  wage survey, metropolitan area, 9320
DC motors, *see* Electric motors.
DCA, *see* Defense Communications Agency.
DCSC, *see* Defense Construction Supply Center, Columbus, Ohio.
DDT, evaluation of p,p'-DDT as reference toxicant in bioassays, 14674
Deacon, Laura M. Goditiabois-, *see* Goditiabois-Deacon, Laura M.
Dead, transportation of deceased dependents of members of Armed Forces, report, 1920
Deadmore, Daniel, influence of time on vacuum vaporization rate and surface compositional stability of tantalum carbide-hafnium carbide solid solutions above 2000° C, 12365
Deaf:
  breaching wall of silence, 6690
  captioned films for deaf, catalog, 635
  hearing-loss trend curves, etc., in diesel-engineroom personnel, 13659
  interpreting for deaf people, report of workshop, Governor Baxter State School for Deaf, Portland, Maine, 14069
  model secondary school to serve National Capital region, Gallaudet College, establishment, etc.—
    hearings, 15966, 16194
    reports, 17273, 17526
  preparation of teachers, conference, 13279

Deaf, Convention of American Instructors, *see* Convention of American Instructors of the Deaf.
Deaf, National Technical Institute for, *see* National Technical Institute for the Deaf.
Dealers:
credit in agriculture, data from 1960 sample survey, 8923
poultry, national improvement plan, participants, 5267, 9778
retail automotive, employee earnings and hours, 13613
securities, relationships, regulation, 4391-8925, 14642
subject to certain sections of title 1, National housing act, list, 5934
trout and pondfishes, list, 10532
Dealy, J. Edward:
bitterbrush nutrition levels under natural and thinned ponderosa pine, 8963
spotlighting deer, potentials for management in western Oregon, 8962
Deans (in schools):
graduate, United States universities, 1872–1965, directory, 11869
Deason, Willard, nomination hearings, 4215
Death:
clinical, threefold reanimation, USSR study, 2258
cohort infant mortality rates, 6584
cold-stressed mice, challenged with viruses by different routes, mortality rate, 79
construction fatalities for analysis, 10850
England and Wales, mortality trends, changes, 5121
infant and perinatal mortality, report of international conference on problem of United States, 12486
infant, fetal, and maternal mortality, U.S., 18082
infant mortality trends, United States and each State, 1441
morbidity and mortality weekly report, 3225
mortality—
diseases associated with smoking, U.S., 16811
New England dentists, 18003
overwintering eggs of budworm, etc., 13359
vital statistics of U.S., 14002–3
white and nonwhite infants in major U.S. cities, 4536
study of charter beneficiaries, 18098
records, where to write, 1447
sudden, in infants, conference on causes, proceedings, 13994
Death Valley:
general geology series), 7484–85
hydrologic basin, description, 7485
plant ecology, 7487
stratigraphy and structure, 7484
Death Valley National Monument, general information, 6505
Deaton, Jerry W., stiffness properties of foam-filled fabric structures, 7825
DeBald, Paul S.:
Kentucky forests—
Eastern Unit, 11995
Western Coalfield Unit, 14720
Debates and debating:
college topic, 1965–66, selected excerpts and references, 466
high school topic 1966–67, selected excerpts and references, 13065
reform of economic guidance system debates of Hungarian Academy of Sciences, 13577
Debentures:
Federal intermediate credit banks, delete interest rate limitation—
law, 17109
reports, 17206, 17463
Debits, *see* Banks and banking.
DeBlois, Eleanor N., increased dollar sales brought agricultural exports to alltime high in 1964, 628
Debt:
debt pooling—
and garnishment in relation to consumer indebtedness, State laws, 12205
State laws prohibiting or regulating, 12204
defaulted guaranteed housing loans, collection efforts of VA, GAO report, 4504
farm mortgage debt by States, 1972
home mortgages, estimated, quarterly, 2889
indebtedness, prohibit insured banks from issuing negotiable interest-bearing or discounted notes, certificates of deposit, etc., hearings, 11645
receivables and bad-debt losses, census of business, 1963, wholesale trade, 1700
reserve for certain guaranteed debt obligations, income tax deduction, reports, 15936, 17523
see also Agricultural credit—Public Debt.
deBurgh, Juanita C., relief, 17437
Decaking of coals in fluid bed, 10931
DeCarlo, J. A., coke and coal chemicals, 1106
Decay (timber):
and discoloration following logging wounds on northern hardwoods, 11994
beech, birch, and maple, organism interactions, 8974
building decay associated with rain seepage, 16942
Decay coefficient, acoustic, of simulated rocket combustors, 9538
Deceased, *see* Dead.
Decedents' estates:
District of Columbia code, titles 19 and 20, technical amendments—
law, 15744
reports, 8643, 16110
District of Columbia escheat cases, settlement by commissioners, report, 15871
probate and administration of small estates, 2279
rights of survivors in handling of savings bonds in estates, some legal aspects, 2549
Deceleration, airline crash, head and face injury potential or seats, 14243
Decelerators:
ballute pressure measurements, 13841
drag characteristics in wake of X-15 airplane model, 6450
modified hydraulic braking system limits angular deceleration to safe values, 13746
Decell, H. P., jr., iterative method for computing generalized inverse of matrix, 11078
Deciduous fruits, *see* Fruit.
Decimal classification, *see* Classification.
Decision elements, binary sequence detector uses minimum number, 12306
Decision logic table technique, 71
Decision-making:
Federal research and development programs—
hearings, 5694
report, 12920
improving in Government (addresses), 3866, 16986
optimal property of sequential procedures related to Bayes solutions, 9410
sequential decision rules for multiple choice problem, 9411
simulation technique for making management decisions in dairy farming, narrative, flow chart, and computer code description, 5864

Decision-making—Continued
tactical—
behavior, study, 8194
functional requirements of training equipment, 7970
timeliness and accuracy in sequential decision making task, 8274
Decisions, *see* names of courts, etc., rendering decisions—*also* subjects.
Decks, roof decking, Army technical manual, 129
Decoding:
Antisubmarine Warfare Environmental Prediction Services manual, 12410
time, error detection and correction approach, 15145
Decomposition:
high temperature decomposition of inorganic salts, 17940
manganese sulfate, by partial reduction process, 10930
Decompression:
effects on operators' performance, 11448
equations, computer solution, 13666
rapid to near vacuum, effect on chimpanzee, 1188
Decompression sickness, *see* Aeroembolism.
Decontamination:
aircraft, practice guide, 14684
radioactive, methods of combating pollution, 7616
Decorations of honor:
Air Force manual, 6792
foreign, acceptance by government officials and employees, establish basic uniform standards, reports, 10286, 17238
merchant marine, U.S., 16551
Order of Isabella the Catholic, award to Eugene J. Keogh, authorize acceptance, 17066, 17413
de Corpus, Consuelo A., *see* Corpus, Consuelo A.
Decoupling, seismic, at nuclear level, experiment, Project Dribble, Salmon event, Vela Uniform program, Tatum Salt Dome, Miss., 3850–53, 5414–16, 6868
De Coursey, Donn G., runoff hydrograph equation, 8126
Deductions, *see* Income tax.
Deep Springs Lake, Inyo County, Calif., hydrology and mineralogy, 9018
Deep Springs Valley, Calif., clastic sedimentation, 817
Deer:
blacktail, bibliography, 10616
habitat management problems in northern forests, 8973
key, conservation—
hearings, 13053
report, 17265
seeding conifers and buffer crops to reduce deer depredation, 17687
slash cleanup in ponderosa pine forest affects use by deer, 13366
spotlighting, potentials for management in western Oregon, 8962
use of—
openings in spruce-fir forests of Arizona, 13368
ponderosa pine forest in Arizona, 13365
Deer Lodge County, Mont., geology of northwest quarter of Anaconda quadrangle, 12013
Deering, Elmer C., bond sales for public school purposes, 4296
Deerwester, J. M., trajectories to Jupiter, Ceres, and Vesta, planetary flight handbook, 9445
Defectoscope, radiation safety during gamma ray defectoscopy, regulations, Bulgarian study, 2226
Defense, *see* Civilian defense—National defense.
Defense Atomic Support Agency, scientific information activities, 13890
Defense communications, *see* Military communications.
Defense Communications Agency, DCA circular, 7251
Defense Construction Supply Center, Columbus, Ohio, procurement estimates catalog, 10385
Defense contracts, *see* Government contracts.
Defense Department:
active duty retirement benefits for Army and Air Force Reserve officers, GAO report, 13378
ammunition management, GAO report, 8991
appropriated funds, reprograming, case study, 508
appropriations, 1966—
hearings, 507
military procurement, report, 17198
public works, law, 401
appropriations, 1966, supplemental—
military procurement and construction—
hearings, 5797, 7117
law, 7031
reports, 5666, 5757, 7079, 7083
proposal, 4067
southeast Asia, military activities, construction—
hearings, 5797, 7117
law, 7031
reports, 5666, 5757, 7079, 7083
southeast Asia military operations—
hearings, 5681
law, 7038
reports, 5679, 7184, 8544
appropriations, 1967—
hearings, 8649, 10228, 13013, 17357, 17274, 17566
reports, 12914, 15880, 16094
appropriations, 1967, military construction, hearings, 11642, 16172
appropriations, 1967, military procurement—
hearings, 8766, 10232
law, 11593
reports, 8644, 8744, 12930
cataloging and standardization program, semiannual report, 1846, 5684
cataloging handbook H series, 601–602, 1960, 2930–40, 2963–64, 2966–68, 4242–43, 5843, 10383, 14514
cataloging manual M (series), 603–605, 4244
charges to defense contracts for company aircraft, GAO report, 13379
chemical warfare agents now employed or contemplated by Pentagon in Vietnam, USSR article, 2195
civilian manpower policies in Far East and Western Europe, investigation, authorization, report, 17301
commanders digest (periodical), 6822
commercial warehouse service plan for general merchandise and refrigerated storage, 17609
contract audits by GAO, policies, etc., reports, 7098, 12987
contract negotiation and award, need for postaward audits, GAO report, 6014
contractor performance evaluation (development and production), guide, 14518
contractors, long-term leasing of buildings and land, GAO report, 16344
contracts with Univac Division, overhead cost charges, GAO report, 9000
cost reduction program—
examination, 14408A
memorandum, 13243
report, 2802

Defense Department—Continued
decision to reduce number, etc., of manned bombers in SAC—
hearing, 8653
subcommittee report, 8657
defense industry bulletin (periodical), 2844
defense logistics management training, catalog, change, 8796
education of dependents overseas, report, 7132
employees, reemployment leave travel benefits granted, GAO report, 8998
General Counsel, nomination of Paul C. Warnke, hearing, 17571
Government gasoline outlets, potential savings through greater use, GAO report, 13376
Granite City Defense Depot, employees relief, 4076, 14362
handbook DSAH series, 606–607, 4245, 7253–57, 8797–8805, 10386–390, 11841–845, 13246–248, 14516, 16207–209, 17606–607
incentive awards program, 9882
Information Analysis Centers—
directory, 6535
scientific information activities, 13890
installations, former, productive civilian uses, 4260
interservice action needed when management policies and practices differ for similar items, GAO report, 14726
leasing motor vehicles for use by Government contractors, GAO review, 16348
Logistics Research Conference, professional papers, procurement practices, 17613
manual DSAM series, 608–611, 4246–50, 5846–49, 7258–61, 8806–8, 10391–393, 13249–252, 16210, 17608
manufacturers part and drawing numbering systems, 5843, 10383, 14514
military construction and family housing appropriations, 1967, reports, 15908, 17311, 17513
military construction authorization, 1966, report, 17199
military construction authorization, 1967—
hearings, 11644, 11789
law, 15745
reports, 10306, 12967, 15881
military handbook, 615
military personnel, consolidation of field organizations, etc., for recruiting, GAO report, 10622
military standards, 4257, 7263–66, 8813–14, 10394, 11849–853
milk procurement, price adjustments, amend U.S. Code, hearings, 17361
missile and space ground support operations—
hearings, 7148
report, 7096
overseas household goods shipments, charges for diversion, GAO review, 14734
overseas teachers pay, correct inequities—
law, 8467
reports, 4173, 7101
policies, etc., applied in evaluating foreign source components and barter bids for undersea cable communications system, GAO report, 4506
policy guidance strengthened on direct procurement of components needed by contractors in production of weapons systems and other major end items, GAO report, 8988
potential savings through Government quarters in lieu of payment of quarters allowances to U.S. military personnel in Taiwan, GAO report, 6019
procurement and utilization of security covers for nuclear weapons, GAO review, 16349
Defense Department—Continued
regulations DSAR series, 17609
review of assignment of enlisted personnel to nonmilitary activities, GAO report, 4502
rotation of civilian employees assigned to duties outside United States, 524
specifications and standards, index, 14519 supplement, 3055
standardization documents, supply classification listing, 2965, 14517
standardization manual M (series), 3533, 5856, 13245
standardization policies, procedures, etc., manual, 3533, 13245
surplus personal property—
classes sold, 14515
how to buy, 5852
travel regulations, civilian personnel, 614, 3098
United States activities in Viet Nam, internal audits and inspections, GAO report, 13385
utilization, etc., excess beds and bedding, GAO report, 13386
Defense disposal manual, 611
Defense Documentation Center, descriptors thesaurus, 14524
Defense facilities, *see* Plants (Industrial).
Defense industry bulletin (periodical), 2844
Defense industry diversification, analysis with 12 case studies, 6825
Defense Language Institute, general information, 13244
Defense Logistics Services Center:
DSA–DLSC manual, 16211
provisioning screening procedures, manual, 16211
Defense materials, *see* Strategic materials.
Defense procurement circular, 2845
Defense production, *see* Production.
Defense production act, *see* Production.
Defense Production Joint Committee:
committee print, 452
hearing, 453
report, 4164
Defense scrap yard handbook, 14516
Defense Supply Agency:
career opportunities, 17605
civilian career, program for—
quality assurance and control, 16210
supply management, 8806
correspondence manual, 7259, 10392
defense traffic management handbook, 607
DSA–DLSC manual, 16211
field establishment directory, 11845
change, 13248
files maintenance and disposition, manual, 5849
general information, 17610
handbook DSAH series, 606–607, 4245, 7253–57, 8797–8805, 10386–390, 11841–845, 13246–248, 14516, 16207–209, 17606–607
headquarters, organization, missions, and functions, 17612
how to do business with DSA, 16212
HQM series, 17612
index of publications, forms, etc., 4245, 10390
introduction to, general information, 7262
item management coding manual, changes, 5846–47
manual DSAM series, 608–611, 4246–50, 5846–49, 7258–61, 8806–8, 10391–393, 13249–252, 16210, 17608
MILSTRIP, military standard requisitioning and issue procedures, manual changes, 4258, 7267, 10395, 14520
procurement regulation, 11846
revisions, 2846
regulations DSAR series, 17609
scientific information activities, 13890
Defense traffic management handbook, 607
Defense utilization manual, 4246, 10391, 13249

239-221—67—No. 863——15

Definitive designs for naval shore facilities, 1567–68
Deflection:
sensing rings, angular acceleration measurements, 9456
tapered wood beams, 4462
time dependent, of floating ice sheet, 15510
Defoliants:
gypsy moth egg-mass density and subsequent defoliation, relationship, 8959
sagebrush defoliator outbreak in northern California, 2069
Defoliation, pine butterfly, effect on ponderosa pine in southern Idaho, 16325
Deformations (mechanics):
gauge, polymer, measures thickness change in tensile tests, 7801
inelastic, of rock under hemispherical drill bit, 16582
plane thermoelastic deformation of internally heated annular disks or hollow cylinders, 4985
strain gage network distinguishes between thermal and mechanical deformations, 12321
see also Plasticity.
Degasification, vacuum outgassing of metallic and coated surfaces, 4968
Degiutition, effect on tooth mobility, 9867
Degrees (colleges, universities, etc.):
advanced, fall 1963, enrollment, final report, 7304
conferred during 1964–65, summary, 16242
earned degrees conferred, 1963–64, bachelor's and higher degrees, 7302
engineering, 1962–63, and enrollments, 1976
engineering, 1964–65, advance reports, 10418
Hungarian Academy of Sciences, academic awards and degrees, directive, 16481
Hungary, new doctors and candidates, lists, 6112, 9083, 14836
Rumania, decree concerning scientific degrees, 2246
second-level, conferred by U.S. institutions of higher education, 1963–64, number and kinds, 11877
DeHuff, Gilbert L.:
manganese, 17838
vanadium, 13703
Dehumidifiers, U.S. Air Conditioners and Dehumidifiers Show, July 22–30, 1965, U.S. Trade Center, Tokyo, Japan, registered visitors, list, 10021
Dehydration, *see* Hypohydration—*also* names of commodities.
Dehydrators, *see* Dryers (industrial).
Deissler, Robert G., weak locally homogeneous turbulence in idealized flow through cone, 16679
Deitch, Jerome, status of irradiated food petitions, 12692
Deitschman, Glenn H., western white pine site index and tree height, 8972
DeJarnette, Fred R.:
application of Lax's finite-difference method to nonequilibrium hypersonic flow problems, 7897
effects of vibration-dissociation coupling models on nonequilibrium hypersonic flow of nitrogen over wedge, 13828
De Laguna, Wallace hydrologic analysis of postulated liquid-waste releases, etc., 13394
de la Torriente, Jose E., relief, 8697
Delaware:
census of manufactures, 1963, manufacturing plants, location by county, industry and employment size, 14258
climatological data, 2751
county business patterns, 1715
electric rate book, 705
life tables, 18015
medical assistance for the aged, under social security act, 11905
Delaware—Continued
mineral industry, minerals yearbook chapter, 17841
place names, 13404
postal map, 13933
precipitation data, hourly, 3045
Sussex County Soil and Water Conservation District, crimson clover for soil cover, grazing, and hay (colored poster), 9667
water, general information, 6039
Delaware and Hudson RR., accident, 12069
Delaware River and Valley:
record low tide of Dec. 31, 1962, 13415
tidal, fresh-water discharge-salinity relations, 10647
Delaware River Basin Commission:
appropriations, 1966, public works, law, 401
appropriations, 1967, hearings, 10229
Del Baglivo, Anna, relief, 1807
Del Frate, Pietrina, relief, 1805
Delgado, Antonio Rondon, *see* Rondon Delgado, Antonio.
Del Grosso, V. A., systematic errors in ultrasonic propagation parameter measurements, 1351
Delinquency, *see* Juvenile delinquency.
Delinquent children, *see* Juvenile delinquency.
Deliroglou, Konstadyna B., and son, relief, 5733, 15692
Dell, John D., variations in moisture content of several fuel size components of live and dead chamise, 10573
Della Croce, Norberto, marine cladoceran Penilia avirostris in northwestern Atlantic waters, 7444
Delmarva Peninsula:
hydrologic study, authorize—
law, 17116
reports, 13147, 17215
Delta National Wildlife Refuge, fishes, list, 16310
Delta wings, *see* Wings (aircraft).
DeLuzio, Frank C., remarks, Aug. 10, 1966, 13432
Demand, *see* Supply and demand.
DeMarrais, Gerard A., meteorological summaries, atmospheric transport, etc., over southern California, 5229
Demetriou, James A., fluorescent products in urine of rats exposed to ionizing radiation, 8212
Demineralization of saline water, *see* Water.
Deming, Frederick L.:
addresses, etc.—
Nov. 12, 1965, 1513
Nov. 19, 1965, 1514
Feb. 16, 1966, 6682
May 9, 1966, 9745
July 14, 1966, 12548
Demmerle, Alan M.:
error detection and correction approach to time decoding problem, 15145
signal conditioning to improve high resolution processing for PFM telemetry, 9503
Democracy:
exercise in industrial democracy (address), 11119
voluntary democratic associations, bibliography on community organization for citizen participation, 1528
Democratic Republic of Congo, *see* Congo (Leopoldville).
Democratic Republic of Vietnam, *see* Vietnam.
Demodulators:
diversity-lock phase, 7861
PN acquisition, automatic synchronization of telemetry channel, 12313
Demography:
mirror of Bulgarian life, 4605
recent trends, effects on maternal and child health needs and services, 11484
Demolition, *see* Wrecking.

Demonstration cities program, why it is needed, etc., 14760
Denalt performance computers:
for use with—
fixed pitch propeller airplanes, 14681
variable pitch propeller airplanes, 14682
Denardo, B. Pat, penetration of polyethylene into semi-infinite 2024–T351 aluminum, etc., 7882
Denbigh Experimental Forest, N. Dak., ponderosa pine, performance of seed sources, 5982
Dengler, Dieter, imprisonment and escape after his aircraft was shot down over North Vietnam, testimony, hearing, 17570
Denmark:
community mental health services, 5025
economy, basic data, 4012
labor conditions, 13628
mineral industry, mineral yearbook chapter, 2323
Soviet scientists in, 13521
Dennard, John S., mass-flow rates and total-pressure recoveries for semicircular open-nose inlet, 7830
Dennison, R. A., low level irradiation effects upon food preservation, 8294
Densitometers:
development of methods in bone densitometry, 6352
liquid hydrogen, high accuracy, etc., 17903
Density:
atmospheric—
density determination with rocket-borne thermistor, USSR study, 2269
density determined during minimum solar activity by means of Explorer XIX satellite, 11059
binary fluoride mixtures, 16581
bone densitometry methods, development, progress, 6352
concentration profile establishment of binary gas mixture in swirl and duct flows, 9394
discharges, electrode phenomena in high energy, as applied to plasma acceleration problems, 12266
electron, and scale heights in topside ionosphere, Alouette 1 observations in midlatitudes, 10980
fluid, 3-dimensional wire-mesh capacitor system measures, 4874
gas, effect on work of breathing in man, 8216
Greenland snow, determined by sonic wave velocity measurements, 9891
gypsy moth egg-mass, and subsequent defoliation, relationship, 8959
human body, measured by water displacement of adult male, 14235
key to wood quality, proceedings of symposium, 7458
liquid-hydrogen measurements using open-ended microwave cavity, 17930
litter in longleaf pine stands thinned to prescribed densities, 16334
PTFE-aluminum films serve as neutral density filters, 4854
supernuclear, equation of state of matter, 1247
upper stratosphere and mesosphere measurements, 13848
variations in free atmosphere, northern hemisphere, USSR study, 6241
Density function, *see* Probabilities (mathematics).
Dental administration, Navy manual, 6530, 15245
Dental assistants, trained, facts for counselors, 2542
Dental care, *see* Dentistry.
Dental clinics, State programs, digest, 12463
Dental Corps, Army, continuing education program for officers, 5360
Dental Corps, Navy, your career in Naval Dental Corps, 2315
Dental hygienists:
employment outlook, 9226
salaries in local health departments, 12484
Dental instruments and apparatus:
census of manufactures, 1963, industry report, 11453
Federal item identification guides for supply cataloging supplements, 2937
Dental kits, emergency, for use on extra-terrestrial missions, 9872
Dental laboratories:
dental laboratory technicians—
apprenticeship and training policy, 106, 14200
employment outlook, 9227
Dental materials, *see* Dental supplies.
Dental schools, grants for program improvement and scholarship, law, summary, 4534
Dental science, dexamethasone suppression tests, parotid fluid corticosteroid response, 11383
Dental supplies:
adhesive restorative materials—
inorganic polymers, literature survey, 2498
requirements and test methods, 7927
workshop proceedings, 15269
Federal item identification guides for supply cataloging, supplements, 2937
Dental technicians:
dental laboratory technicians—
apprenticeship and training policy, 106, 14200
employment outlook, 9227
prosthetic, Navy training course, 6531
Dentifrices, stannous fluoride prophylaxis pastes, protection of enamel surfaces, 6816
Dentistry:
aerodontalgia under hyperbaric conditions, 14995
Army Dental Corps continuing education program, 5360
astrostomatology, dental standards for selection and examination of space crewmen, 12641
dental administration, Navy manual—
change, 15245
planning, construction and maintenance of naval dental facilities, 6530
dental research highlights, search for oral health, 5212
dental services for American Indians and Alaska natives, fiscal year 1965, annual report, 6573
dental support, Fleet Marine Force manual, 4743
dental visits, July 1963–June 1964, U.S. statistics, 8005
group practice facilities, financial assistance for constructing and equipping—
hearings, 8659
reports, 13188, 14388, 15897, 17202, 17241, 17336
summary of House bill, 8664, 13023
local dental health programs, Contra Costa County, Calif., Hartford, Conn., Jefferson County, Ala., 6586
military medical benefits act of 1966—
hearings, 13195
reports, 7105, 8612, 16091
miniaturized VHF FM/FM telemetry system, 3798
Naval Dental Corps, career opportunities, 2315
parotid fluid flow rate in subtropical climate, seasonal variations, 6813
parotid fluid protein-free filtrates, preparation, 8217
periodontal status of incoming Air Force Academy cadets, 15493
prepaid dental care, glossary, 1430
protective performance of stannous fluoride-zirconium silicate pastes, 8208

Dentistry—Continued
State dental health programs, digest, 12463
X-ray shielding, guidance for design, 16962
Dentists:
employment outlook, 9228
Naval Reserve Dental Companies, curriculum, 13902
New England, mortality, 18003
salaries in local health departments, 12484
Denton, Thomas C.:
mineral industry of—
Kenya, Tanzania, and Uganda, 7695
Rhodesia (Southern Rhodesia), Zambia, and Malawi, 7702
South Africa, 9364
regional mineral industry review of Africa, 9367
Denver, Colo.:
aeroradioactivity survey and areal geology of area, 12670
area wage survey, 7668
Forest Service land, development for recreational purposes—
law, 11555
reports, 5672, 10308
Deoxyribonucleic acid, *see* Desoxyribonucleic acid.
Department stores, *see* Stores.
Departmental Task Force on Social Work Education and Manpower, report, 6046
Dependent children, *see* Children.
Dependents, *see* Armed Forces—Pay, allowances, etc.—Veterans.
Deportation, cases suspended, 1896, 12898, 13100
Deposition, *see* Sedimentation and deposition.
Depository libraries, *see* Libraries.
Deposits (soldiers, etc.):
improve program for members serving outside U.S.—
law, 15721
reports, 12921, 13180
Depreciation:
accelerated depreciation allowance, suspend—
hearing, 17400
reports, 15932, 17341, 17537
depreciable property, farmers tax deduction from gross income for assessments for soil or water conservation or drainage districts, report, 17334
Depth indicators, and stop aid machining to precise tolerances, 9463
Depth perception, see Perception.
Depuration plant design, 13962
Dermatology, advances, USSR studies, 13565
Derrickson, Gardner F., iron and steel scrap, consumption problems, 11450
Desalination:
brackish water conversion demonstration plant, Roswell, N. Mex., reports, 9036–37
desalting for northern New Jersey and New York City, potentialities and possibilities, engineering study, 16378
electrosorption and desorption, 16373
freezing and reverse osmosis, 7516
mineral by-products, 17737
research program, 1967 review, hearing, 8671
reverse osmosis plant, design study, 9038
reverse osmosis systems, 9042
sea water conversion—
conceptual design of—
50 million gallon per day plant, 846–847, 2111, 6055, 6058–59, 9034, 10662–664, 12042–43, 12045, 12055, 13430
150 million gallon per day plant, 16370
evaporators, optimum brine heater outlet temperature, 12053
Desalination—Continued
thermophysical properties of saline water systems, 12054
see also Sea water.
Desalting of sea water, *see* Sea water.
Desautels, Paul E., gems in Smithsonian Institution, 5139
Descriptive cataloging, *see* Cataloging.
Descriptors, *see* Subject headings.
Desegregation in education, *see* Race problems.
Desert bighorns, *see* Bighorn sheep.
Design features affecting asepsis in hospitals, 7997
Design manual DM series, 1569, 6707
Design procedure for weight optimization of straight finned radiators, 15143
Design reliability goal developed from small sample, 16628
Designs (aircraft):
airborne simulator conceptual design report, 16591
Nimbus spacecraft, schedule, National Aeronautics and Space Administration, GAO review, 17714
thermostatic fin spacecraft temperature control, 10966
Designs (architectural), *see* Architecture.
Designs (decorative):
protection act—
hearing, 5816
report, 13165
Designs (industrial):
control systems, on-off class, applications of rate diagrams to analysis and design, 10952
depuration plant for shellfish, 13962
equations of swept frequency spectrum analyzers, 15196
fracture-safe design of complex welded structures, concepts and procedures, 1379
maintainability guide for design, engineering design handbook, AMC pamphlet, 9883
orbiting radiotelescope, large, preliminary studies, 15070
oxygen-mask, selected facial measurements of children, 15555
protection, laws, etc.—
Australia, 345
Colombia, 14326
reverse osmosis plant for sea water conversion, 9038
seismic design for buildings, Army technical manual, 14223
technology and manpower in design and drafting, 1965–75, report, 17800
torque wrench designed for restricted areas, 4848
Designs (patents):
in official gazette, 3288
Desks:
steel, general office flat top and typewriter, Federal standard, 736
wood, general office, flat top and typewriter, Federal standard, 737
Desmodus rotundus, *see* Bats.
Des Moines, Iowa, area wage survey, 9326
DeSocio, Ralph S., jr., relief, 387
Desorption:
carbon dioxide and oxygen from sea water, 12048
desalination by electrosorption and desorption, 16373
kinetics of multiple adsorbates, cesium with fluorine on molybdenum and tungsten, 15187
DeSoto National Memorial, general information, 65006
De Soto National Wildlife Refuge, general information, 4424

Desoxyribonucleic acid:
nucleotide composition in pasteurella, USSR study, 10831
thymidine incorporation after irradiation, 5329
Detection in homogeneous visual field under condition of infinite depth of focus, 2490
Detectors:
binary sequence, uses minimum number of decision elements, 12306
flame-detector rods, mounting facilitates removal and installation, 7803
focus, disclosures on magnetic tape holder, 7921
hot-wire, for chemically active materials used in chromatography, 7793
hydrogen fire detection system features sharp discrimination, 13800
liquid nitrogen-cooled gamma ray system, mount for portability, 9455
measuring positron-to-electron ratio at balloon altitudes, 2413
narrow band X-ray detector using radioisotope X-ray sources, 6855
non-acoustic devices for submarine detection, 2254
optical device enables small detector to see large field of view, 12305
photoionization, soft X-ray, 6417
portable methane, effects of gases in mine atmospheres, 9361
solid state, monitor relay contacts, 15126
test strips detect different CO_2 concentrations in closed compartments, 4883
voltage ratio for millivolt signals, 2454
see also Radiation detection instruments.
Detonating cord, explosive force of primacord grid forms large sheet metal parts, 4851
Detonations:
end and axial methods of detonating explosive in granite, comparison, 2349
initiation in alkane-oxygen mixtures, 15031
nature of detonation, USSR study, 4679
see also Nuclear explosions.
Detonators, vapor toxicity of new antidetonator, manganese cyclopentadienyltricarbonyl, 899
Detroit, Mich.:
area wage survey, 8325
commodity transportation survey, production area series, 9955
principal electric facilities, map, 7375
vision and hearing screening in selected classes for mentally retarded, 14283
Detroit River and Valley:
Michigan, pollution of navigable waters, conference, 5103
water pollution, control, etc., hearing, 17381
Detroy, B. F., cloth strainer for honey conditioning systems, 9835
Deurbrouck, Albert W.:
preparation characteristics of coal from—
Barbour County, W. Va., 4792
Buchanan County, W. Va., 6325
Webster County, W. Va., 15026
steam as coal dewatering aid during vacuum filtration, pilot plant study, 4798
sulfur reduction in Appalachian region coals by stage crushing, 6288
Deuterons, bombardment, absolute photon yields of light elements, 16699
Deveaux, G. D., XV–9A hot cycle research aircraft, 3836
Deveikis, William D., aerodynamic characteristics of tension shell shapes at Mach 3.0, 16690
Development, *see* Underdeveloped areas.
Development (economics), *see* Economic policy.
Development digest (periodical), 2854
Devices:
centrifugal device separates liquid from gas, 4887
device serves as hinge and electrical connector for circuit boards, 13794
facilitate centering of workpieces in lathe chuck, 12318
floating, aligns blind connections, 4844
flux averaging, use to obtain accurate measurements in the infrared, 2455
friction device damps linear motion of rotating shaft, 4867
friction loading, enable accurate testing of brittle materials, 13780
high-voltage isolation device for ion-thrustor propellant feed, 13838
pneumatic separator gives quick release to heavy loads, 15093
radiation resistant, 6338
remove hydrogen gas from enclosed spaces, 13775
self-powered, portable, detects internal flaws in tubular structures, 4865
semiautomatic, tests components with biaxial leads, 13772
simple device facilitates inert-gas welding of tubes, 9467
special mount improves remote transducer accuracy, 4858
wire, protects MOS transistors from damage, 16639
Devine, James F.:
effect of charge weight on vibration levels from quarry blasting, 12243
vibration levels transmitted across presplit fracture plane, 1166
Devitrification of lithium disilicate glass, 2354
Devlin, James M., sources of information on containers and packaging, 179, 8320
DeVoe, James R., radiochemical analysis, 5013
Devonian period:
Guilmette Formation and Simonson Dolomoite in Pequop Mountains and Wood Hills, Nev., discussion of high concentrations of zinc, lead, and mercury, 16355
Stringocephalus in Devonian of Indiana, 11224
Dewey, D. H., hydrohandling system for sorting and sizing apples for storage in palet boxes, 11357
Dewey, M. L., influence of variations in environmental temperatures on systemic effects of alcohol alone and in combination with other drugs, 3781
DeWitt, Richard L., pressurant gas injectors during pressurized discharge of liquid hydrogen, 11077
DeWolfe, Mildred R., air shipments of agricultural commodities, 7286
Dexter, Howard B., salt stress corrosion of residually stressed Ti–8Al–1Mo–1V alloy sheet after exposure at elevated temperatures, 7837
Dextran, treatment of edematous states, USSR study, 14906
DeYoung, Alan, relief, 7073, 14359
DHIA, *see* Dairy herd improvement association.
Dhufar, geology of part, 17723
Diabetes:
conference on methodological approaches to population studies, proceedings, 15294
high yield screening, 1423
literature index (periodical), 7928
Diagnosis:
analysis of bronchoscopic symptoms of pulmonary cancer with digital electronic computer, USSR study, 12132
design of facilities for mentally retarded, 16800
isotopes, uses, 5427

Diagnosis—Continued
principles of machine diagnosis, USSR study, 1054
see also names of diseases.
Dialectics, *see* Reasoning.
Dialectology, Russian, 7600
Dialects, *see* Language and languages.
Dialkyl triorganosilylmethoxymethyl phosphinates and their hydrolytic stability, 6129
Dials, safety dial, 1086
Dialysis, application of inorganic ion-exchange membranes to electrodialysis, 7512
Diamond, W. G., mineral industry of Kansas, 1127
Diamond bits, *see* Diamond drilling.
Diamond Creek, Gila trout, ecology, 14679
Diamond drilling, impregnated diamond bits, drillability studies, 12244
Diamonds:
industrial diamond & small diamond dies, U.S., consumption and trade, 9943
tools, disposal from national stockpile, hearings, 11643
Diaperini, *see* Beetles.
Diaphragms:
die and telescoping punch form convolutions in thin diaphragm, 4886
diffusion technique, electrolytes, principles and practices, 1477
electrically heated, eliminates use of pyro technics, 2403
spring gives clutch over-center toggle effect, 15094
stations, primary and secondary, area changes, effect on expansion-tube performance, 6459
valve for corrosive and high temperature fluid flow control, 15096
vibrating, measures high electrostatic field strengths, 1227
Diatomaceous earth, wheat protectant against insect damage in small bins, errata, 6754
Diatomite, minerals yearbook chapter, 15003
Diatoms:
common, at water pollution surveillance system stations, guide, 13331
late Pleistocene, from Trempealeau Valley, Wis., 13409
Diaz, Jose E., relief, 15680, 11716
Diaz Franquiz, Jose J., relief, 8707, 17075
Diazotype paper, sheet sizes, Federal standard, 11954
Di Battista, John D., spray velocity resulting from high-velocity penetration of thin plates by disks, 16682
Diborides, *see* Titanium diborides.
Dickens, L. E., technology of tunnel devices for millimeter-wave applications, 10963
Dickinson, Philip P., master planning of NASA installations, 5634
Dickson, John N., general instability of ring-stiffened corrugated cylinders under axial compression, 4902
Dickson City, Pa., railroad accident, 12069
Dictionaries:
aerospace glossary, 9843
geologic names of United States, Panama Canal, and Pacific Islands, 9008
German military dictionary, 1658
military terms for joint usage, 16389
occupational titles, 1985
conversion table, 4325
corrections, 13288
training manual, 666
technical terms for aerospace use, 1194
Vietnamese-English, 16425
Dictionary stands, wood, Federal standard, 11953
Dicyandiamide, duty-free treatment, report, 17329
Dicycloalkyl sulfide, *see* Sulfides.
Diedrich, James H., emittance and solar absorptance of several coatings, 7889
Dieldrin, poisoning, aerial application problems, comparison of effects in cold-adapted and room-temperature mammals, 11447
Dielectrics:
dielectrometer design permits measurement in vacuum under irradiation, 16624
electrolytic preparation of high dielectric thin films, 4821
properties of polymers, bibliography, 13255
spheres, values for scattering in region of first resonance, 12439
Dielectrometer design permits measurement in vacuum under irradiation, 16624
Dies, *see* Taps and dies.
Dies (metal-working):
die and telescoping punch form convolutions in thin diaphragm, 4886
heated die facilitates tungsten forming, 6373
small diamond, U.S. consumption and trade, 9943
Diesel engines:
emission of pollutants, control—
amendments, 2107
law, 396
introduction to diesel engines 2, USAFI course study guide, 11840
noise effect on hearing loss, etc., on engineroom personnel, 13659
Diesel fuel, *see* Fuel oil.
Diesel mechanics, *see* Mechanics (persons).
Diet:
experimental space-flight diet, isolation of Mima and Herellea, 11382
intakes and body burdens of cesium-137, 2523
rational, USSR study, 7608
therapy in nephropathy concomitant with bile duct diseases in children, USSR study, 1032
tube-type—
effect of stress-inducing conditions on tooth mobility, 12632
oral hygiene procedures, 12633
Dietaries, hospital services, planning guide, 13972
Dietitians, employment outlook, 9230
Dietrich, J. R., power reactor technology, review of recent developments, 3335
Difference equations, *see* Equations.
Differential equations, *see* Equations.
Differential games and manual control, 16704
Diffraction:
patterns, calibrated X-ray, felsic rocks, rapid modal analysis, 4511
wave, all-Union symposium, abstracts of reports, 2209
wedge, application to antenna theory, 4827
X-ray, powder patterns, 15206
Diffractomers, double neutron, duty-free entry, 17190
Diffusers, gas, facilitates withdrawal of cryogenic liquids from tanks, 13777
Diffusion:
bonding—
broad applications, 7731
seal at flanged connector, 11042
coatings of metals, USSR study, 4644
controlled char oxidation, and its effect on steady-state ablation of plastic materials, analysis, 13847
electrolytes, diaphragm techniques, principles and practices, 14771
gallium-phosphorus-zinc, etc., systems, ternary phase diagrams, 9412
hydraulic diffusivity of wedge-shaped aquifers drained by streams, measurement, 13408
properties of duplex refractory metal thermionic emitters, 15044
self-diffusion in ice single crystals, 8239
static models of upper atmosphere with empirical temperature profiles, 2560

Diffusion—Continued
surface, of free-molecule flow through cylindrical tubes, 4962
technique stabilizes resistor values, 7796
vapor diffusion electrode improves fuel cell operation, 13729
Diffusion pumps, *see* Pumps.
Diffusion welding, *see* Welding.
Digests, *see* names of departments, etc., issuing digests—*also* subjects.
Digital computer systems analysts, examination announcement, 12755
Digital computer systems operator:
examination announcement, 9989
amendments, 3969, 14300
trainee, career opportunities, IRS, 4560
Digital computers, *see* Electronic computers.
Digital filters, adaptive, and polynomial, control techniques applied to large launch vehicles, 9431
Digital integrators, *see* Integrators.
Digital-to-analog converters, video signal processing system for spaceflight simulator, 16643
Dill, Ellis H., photoviscoelasticity, 9418
Dille, J. Robert, human factors in aviation accidents, 16984
DiLosa, V. J., diversity-lock phase demodulator, 7861
DiLuzio, Frank C.:
nomination, hearing, 14487
remarks, Mar. 30, 1966, 7510
Dimension stone, *see* Stone.
Dimensional analysis:
control-systems, on-off class, applications of rate diagrams to analysis and design, 10952
performance of sand under tire loads, WES data, dimensionless consolidation, 4336
significance in spin wave theory of ferromagnetism, 11099
Dimensional metrology, subject-classified with abstracts, etc., 12383
Dimethylhydrazine, cardiovascular effects in anesthetized dog, 96
Dimond, Nancy, Navy Supply Corps newsletter, 3256
Dimple, spall, and perforation characteristics in aluminum, columbium, and steel plates under hypervelocity impact, 12350
Dingman, S. Lawrence, hydrologic studies of Glenn Creek drainage basin near Fairbanks, Alaska, 8244
Dining facilities for enlisted personnel, 14225
Dining rooms, seating in dining facilities, Indian school construction standards, GAO report, 9002.
Dinkey Creek roof pendant, stratigraphy and structure, 10645
Diodes:
substituting transistor for diode improves rectifying means, 13733
thermionic, bypass rod transfers heat developed, 13739
thermionic conversion including space-charge theory, Schottky theory, and isothermal diode sheath theory, 6465
tunnel—
devices for millimeter-wave applications, technology, 10963
low power nanosecond and logic circuits using, 15168
see also Crystal diodes.
Dipentaerythritol, NMR analysis of mixed pentaerythritol, dipentaerythritol, and trimethylopropane esters, 1383
Diphenyl ether, calorimeters for determining heat of fusion of iron, 6315
Diplococcal polyserositis, *see* Polyserositis.
Diplomacy, educational and cultural, 1490
Diplomas, sign your own diploma (address), 8852
Diplomatic list, 2857
Diplomatic reception rooms, 12521
Dipyrrylomethanes, *see* Methanes.
Direct currents, *see* Electric currents.
Direct vs. indirect assessment of simple knowledge structures, 8193
Direction indicators, system does not require complicated optics, 16630
Direction U.S.A., 15404
Directional equilibrium of artificial satellite enveloping nonuniform region of gravitational field, 5072
Directions U.S.A., entry, travel, etc., 5201
Directories:
airport, airman's information manual, 11385
architectural, engineering and consulting firms with certified fallout shelter analysts, supp., 6958
Area Redevelopment Administration, approved projects, 2685
aviation medical examiners, 9939
biomedical institutions in USSR, notice, 2464
CAP [community action programs] grantees, 5861, 13258
Congress of United States, 89th Cong., 2d sess., 1783
DSA field establishment, 11845
change, 13248
education 1965–66—
education associations, 16230
higher education, 10420
State governments, 11872
Federal Aviation Agency field facility, 4361
Federal career, college students, 8400
Federal-State market news reports, services available, 13233
foreign trade and markets, publications available, 14625
Government resources available for foreign affairs research, 6633
graduate deans, 1872–1965, at United States universities, 11869
guidance, counseling, and testing personnel in State Department of Education, 7301
Health, Education, and Welfare Department field directory, 13420
highway safety research organizations and resources in U.S., 9638
industrial relations, BLS studies, 2304
Information Analysis Centers, Defense Dept., 6535
information resources in U.S., water, 16544
information services, selected specialized, scientific and technical information analysis center managers, directors, and professional analysts, Ad-Hoc forum, 12677
international mail, 13926
changes, 2859
Job Corps centers, 10403
labor offices in United States and Canada, 7651
labor organizations—
Africa, 16384
Europe, 4581
labor unions in U.S., 12217
Latin Americanists, specialists in social sciences and humanities, biobibliographies, 10892
medical care, Federal grants, personnel, facilities, etc., 4539
NASA, services for public, 17885
National Institutes of Health, scientific personnel, 12481
national mailing-list houses, 18093
Naval Weapons Bureau, 2715
Navy prime contractors, selling to, 1387
Negro colleges and universities, 6250
outdoor recreation, private organizations, 11163
post offices, 1966—
national ZIP code directory, 6564
with ZIP code numbers, 17988
production equipment D series, 8797

Directories—Continued
Public Health Service public advisory groups, 11197
qualified fallout shelter analysts, 14289
recreation areas, Federal, requiring entrance and user charges, 11164
registered patent attorneys & agents, 17982
Securities and Exchange Commission, companies filing annual reports, 15321
senior centers, national directory, 8123
standardization, Federal supply classification, class and area assignments, 5856, 7270, 16214
standardization SD series, 5856, 7270, 16214
State and territorial health authorities, 16793
State departments of agriculture, 590
State merit systems, 7494
State officials enforcing food, drug, etc., laws, 5967
State surplus property directors, 12036
Surplus Property Utilization Division, regional representatives, 12036
telephone—
defense mobilization organization, 452
House of Representatives, 4044
Senate, 536, 10274
State Department, International Development Agency, Arms Control and Disarmament Agency, 1493, 11260, 15344
urban planning assistance program, projects, 6685, 14761
urban renewal, 3652
youth opportunity centers, 16245
Directors:
cooperatives—
democratic election, 5909
recognizing ideal qualities, 7348
training programs, 5910
head start child development centers, medical guide, 4271
scientific and technical information analysis center, Ad-Hoc forum—
directory, 12677
proceedings, 12676
State surplus property, directory, 12036
Dirksen, Everett M.:
record of press conference statements for Joint Senate-House Republican Leadership, 17407
Republican report, 89th Congress—
1st session, supplement, 539
2d session, 17405
Disability insurance:
if you become disabled, social security benefits, 6605
rights and responsibilities of recipients of social security disability insurance, 1473
social security rulings, 3519, 6613
VA procedures for terminating total disability benefits under national service life insurance policies, GAO report, 7477
veterans, eligibility for total insurance, GAO review, 12002
see also Old age, survivors, and disability insurance.
Disabled:
age patterns, United States, 12488
control of disability, general information, 12460
disability days, U.S., July 1963–June 1964, statistics, 1438
disability separation, facts for your future, 14205
State aid under social security act, 8869
see also Civil service pensions—Disability insurance—Pensions—Rehabilitation of the disabled—Veterans.
Disabled American Veterans:
audit of accounts by GAO, report, 15900
legislative recommendations, 1966, hearings, 8685
report, 1965 convention, 4050
Disadvantaged children, *see* Children.
Disadvantaged Children, National Advisory Council on Education of, *see* National Advisory Council on Education of Disadvantaged Children.
Disadvantaged children series, 4298, 16225, 16229
Disadvantaged youth, *see* Youth.
Disarmament:
arms control and disarmament—
bibliography (periodical), 2689
studies in progress or recently completed, 1492, 15336
documents, 109
18-nation conference, report, 11804
international negotiations on cessation of nuclear weapon tests, Sept. 1962–Sept. 1965, review, 11389
treaty on general and complete disarmament in peaceful world, basic provisions, outline, 1633
Disaster insurance, Federal financial assistance to flood victims, reports, 15987, 16177
Disasters:
aircraft emergency procedures over water, 2666
algorithms of operator's actions in emergency situations, USSR study, 6130
ASCS assistance available, 6734, 9802
civil defense, emergency operating centers, program materials for successful meetings, 8383
combined trauma, research, clinical management and planning, review, 12483
disaster control and civil defense in Federal buildings, guide for facility self-protection, 5094
economic, authorize loans under consolidated FHA act, hearing, 4210
economic injury loans, management and technical aid for displaced small businesses, 11218
elementary and secondary schools in area, financial assistance, law, 415
emergency health preparedness publications catalog, 11186
emergency mass feeding—
basic course, instructor's guide, 15624
handbook, 17028
emergency operating centers, 3965
emergency revegetation to rehabilitate burned watersheds in southern California, 10605
emergency welfare services manual, 17024
Federal assistance operations, guide, 4322
flooded areas, etc., permit farmers to comply with acreage reduction agreements, report, 1629
handbook for emergencies, 9987
Hurricane Betsy—
Federal action in disaster, 7327
investigation of destruction—
hearings, 528
subcommittee report, 10265
if disaster strikes, and there is no doctor, medical self-help training, 5109
major, additional assistance to areas suffering—
hearings, 1865, 14437
report, 15934
major, income tax treatment of casualty losses, reports, 1837, 17562
national emergency standby regulations and instructions, FPM supplement, 17041
natural, planting of alternate crops on unplanted acreage—
law, 11560
reports, 10167, 11618
natural, what Department of Agriculture can do, 8154

Disasters—Continued
Northeast power failure, Nov. 9–10, 1965, hearings, 15977
nuclear, hospital planning, 1422
packaged disaster hospital—
establishing, 13970
pharmacy section, 18007
readiness plan, check list, 13971
preparedness, orientation manual for pharmacists, 5107
Southeast hurricane disaster relief act of 1965—
hearing, 527
law, 439
report, 554
year of double trouble, 7361
see also Relief work.
Disbursements, House of Representatives, detailed statement, 7150, 14426
Disbursing clerks:
1 & C, Navy training course, 12414
3 & 2, Navy training course, 1344
Disbursing officers, Government, regulation relating to cash held at personal risk, including imprest funds, department circular, 11299
Discharge:
adverse action, law and regulations, FPM manual supplement, 2946
hospital discharges, computer simulation, 5120
Discharges (electric), *see* Electric discharges.
Discipline, correction series, 14084
Disclaimers:
effect on allowance of marital deduction for estate tax purposes—
law, 17118
reports, 10140, 16129
Discrimination, *see* Race problems.
Discrimination in employment:
age—
discrimination prohibited under State laws, table, 9199
State laws against, summary, 10847
economic progress in black and white (remarks), 3998
equal employment opportunity—
great need (speech), 8442
is good business, 4347
legislation (remarks), 12571
plans for progress program, 12198
report of White House conference, 1543
under civil rights act of 1964, facts about title 7, 17639
under Federal law, 6959
Government contractors, prohibit, opinion of Attorney General, 7638
know your employment rights under law, 10841
Michigan, employment problems of nonwhite youth, 12748
sex discrimination, laws on, 15430
Discrimination reaction:
quantal interpretation of sensory channel, uncertainty and reaction time and psychological time quantum and discrimination of succession, 9427
successiveness discrimination, further experiments, 9426
Discriminators, digitally controlled pulse-level, operation over wide voltage range, 7785.
see also Frequency discriminators.
Discriminatory shipping practices of foreign nations, 14479
Diseases:
associated with smoking, mortality from, U.S., 16811
automatic diagnosing, Czechoslovak achievements in medical cybernetics, 4681
Diseases—Continued
chronic—
epidemiological study, 7931
health care, comparison of British, Canadian, Australian, and American methodology, 11684
obstructive lung, management, conclusions of 8th Aspen Emphysema Conference, 11192
research grants program, Chronic Diseases Division, PHS, 2539
respiratory disease, growing menace, 12461
concerning problems of causation in medicine, USSR study, 4609
defining concept disease, USSR study, 7572
detection in persons over 45, 16806
international classification, 8th revision, report of U.S. delegation to international conference, 18079
molecular, evolution and human health, USSR study, 2200
principal, nervous system, survey of scientific research, 1964, USSR, 2265
see also Contagion and contagious diseases—Diseases of animals—Diseases of plants—*also* names or classes of diseases.
Diseases of animals:
animal morbidity report—
calendar year, 14099
fiscal year, 7
monthly, 2678
host-agent relationships, factors involved, symposium, 9780
infectious, USSR study, 13514
scientific careers in Agricultural Research Service, 53
twenty years struggle against contagious animal disease as reflected in Hungarian professional literature, 13497
veterinary diseases and operations, standard nomenclature, 11114
see also names of diseases, or animals affected.
Diseases of fish, fish disease leaflet FDL–(series), 8940, 11968–971, 14652
see also names of diseases or fish affected.
Diseases of plants:
intercepted plant pests, list, 6716
plant disease reporter, 3325
virus diseases, index, 11346
see also names of diseases or plants affected.
Diseases of poultry, activities report, 3734
Disinfestation, fruit and vegetables by gamma irradiation, 8296
Disk calculator indicates legible lettering size for slide projection, 1215
Disks, annular, internally heated, plane thermoelastic deformation, 4985
Dispensers, use for leak-testing and sterilizing rubber gloves, 9473
Dispersion:
hardening, basic studies, 4817
strengthened alloys after failure in stress rupture, metallographic study, 13831
Displaced persons, emergency welfare registration and inquiry, manual, 17024
Displacement:
displacements in elastic half-space due to moving concentrated normal load, 12370
gas, from water-drive reservoir, efficiency, 7708
surface chemical, of organic liquids from solid surfaces, 12433
Display of merchandise:
farm produce stands, building plans, 11360
roadside stand, building plans, 15455
store arrangement and display, bibliography, 2558, 11222

Display systems:
acoustic displays of flight parameters, 13710
computer based adaptive training applied to symbolic displays, 11154
CRT, apparent movement phenomena, threshold determinations of pulsed light sources, 2363
IFF active readout control and display system, 1370
polar video gating of radar and IFF displays using cartesian control, 12441
spacecraft, integrated display development, 10944
two-axis compensatory systems with compatible integrated display and control, 16593
visual display of semiconductor surface characteristics, 9491
Wisconsin experiment on Orbiting Astronomical Observatory, 17929
X-15 data, 10940
Disposiciones de clemencia de la FHA, 7365
Dissociation:
bromine dissociation rates in presence of argon, neon, and krypton, shock-tube investigation, 13821
vibration-dissociation coupling models, effects on nonequilibrium hypersonic flow of nitrogen over wedge, 13828
Distances between ports, 6524
Distillation:
processes—
separatory, classification bulletin, 6560
thermolytic, classification bulletin, 6559
saline water conversion plants, scale control, 9043
solar, utilizing multiple-effect humidification, 14770
thin-film, 37,000 gpd pilot plant, operation and maintenance, 9040
vapor compression distillation using secondary heat transfer media for sea water conversion, 6063
Distilling plants, *see* Stills.
Distribution (economics):
dual distribution, hearings, 5817
marketing, cost analysis, bibliography, 16819
problems affecting small business, hearings, 14495
see also names of commodities.
Distribution system, *see* Military supplies.
Distributors, *see* Markets and marketing.
Distributors (apparatus):
Craig countercurrent distribution apparatus, duty-free entry, 377
distribution equipment, Federal item identification guides for supply cataloging supplements, 2936
District Courts:
civil procedure rules—
amendments adopted by Supreme Court, 7061
as amended, 13051-52
Connecticut, term to be held at New London—
law, 15737
report, 17481
jurisdictional limitation on civil actions by Indian tribes, amend U.S. Code—
law, 17127
reports, 17236, 17482
North Carolina, eastern district term to be held at Clinton, law, 421
Oklahoma, eastern and western districts, transfer of counties—
law, 17095
report, 13158
rules of criminal procedure adopted by Supreme Court, 5615
South Dakota, terms to be held at Rapid City—
law, 17130
report, 17244
See also Judges.
District of Columbia:
aeroradioactivity survey and areal geology, 9917
alcoholic beverage control act, amend—
hearings, 15965
report, 12906
appropriations, 1966, supplemental, proposal, 5621
appropriations, 1967—
hearings, 13013-A, 16170
reports, 15907, 17327, 17520
area wage survey, 4723
automobile liability policies, make uninsured motorist coverage required part, report, 16117
Bail Agency, establish—
hearings, 10339, 13025
law, 15709
reports, 12917, 14454
Board of Higher Education, create—
hearings, 17370
report, 17488
bridge over Washington Channel, designate Francis Case Memorial Bridge, report, 479
budget, 1967—
departmental edition, 3865
document edition, 4060
business corporation act, amend—
law, 15761
report, 12905
census of manufactures, 1963, manufacturing plants, location by county, industry and employment size, 14258
certified public accountancy act of 1966—
law, 15751
reports, 8641, 17485
certified public accountants, regulation, hearing, 5687
code of laws—
1961 edition, supplement, 4139
titles 19 and 20, technical amendments—
law, 15744
reports, 8643, 16110
colleges, public, establish—
hearings, 10337, 17370
report, 17488
commissioners—
authority to settle D.C. claims in escheat cases, remove limit, report, 15871
report to Policy Advisory Committee, hearings, 7131
transfer functions—
law, 11589
report, 10119
common-law marriages, prohibit contracting in D.C., report, 15855
condemnation of insanitary buildings, amend act, law, 427
construction authorized, 2783
county business patterns, 3911
credit life, health, and accident insurance, for student loans, increase maximum amount allowable—
law, 17108
report, 15852
crime and criminal procedure bill, report, 17330
criminal laws, amend, law, 447
dependent children of unemployed parents, provide aid, report, 544
detailing employees from field positions into D.C., repeal law prohibiting, report, 17262
electric rate book, 711
fire and casualty act, amend—
laws, 8475, 8479
reports, 8733-34, 16117
Fourteenth Street Highway Bridge, replace—
hearings, 11646
law, 17122
reports, 12915, 16147

District of Columbia—Continued
General Sessions Court—
establish Traffic Branch, increase no. of judges, hearing, 7129
increase number of judges and retirement salary of judges, report, 10120
increase number of judges, 15765
transfer functions from U.S. District Court—
law, 11589
report, 10119
Georgetown public market, restore, hearing, 5688
Government employees licensed to drive taxicabs, investigations and actions, GAO report, 2087
Government, matters relating to, message from the President, 17155
Government, organization, etc., investigation, expenses, report, 5645
heliport, establish hearings, 15988
Higher Education Board, establish, authorization, hearings, 10337
highway program, hearings, 7131
home rule—
bills, comparison, 1852
hearings, print additional copies, reports, 560, 7192, 10210
legislation, staff synopsis, 1853
inauguration of the President, provide for travel expenses of sanitarians, etc., report, 15870
income and franchise tax act, amend—
laws, 15761, 17166
reports, 12905, 17201
income tax, withholding regulations for Federal agencies, rescissions, 15396
injuries caused by firearms, etc., mandatory reporting, provide, report, 17287
insurance companies capital stock requirements—
law, 8475
report, 8733
insurance premium finance companies, licensing and regulation—
law, 8479
report, 8734
international center, acquisition of property, etc., authorize, hearings, 11807
John J. Pershing memorial, erect—
hearing, 11813
reports, 10316, 17213
judges, retired, increase retirement salaries—
law, 15757
report, 16114
legislation, summary report, 4127
library and reference facilities in area, 17823
life insurance companies, amend act relative to financial standing—
law, 15738
reports, 8640, 16115
life tables, 18016
memorial to Father Edward J. Flanagan, authorize—
law, 1787
reports, 492, 1925
minimum wage law, amend, report, 480
motor vehicle safety responsibility act, amend, reports, 16117–118
National Visitor Center, establish—
hearings, 8789, 13056
message from the President, 5614
report, 10287
study commission, create, reports, 15837, 17548
National Zoological Park, reorganization, message from the President, 11615
nonprofit corporation act, amend corporate charter of Georgetown University to conform to, report, 17414
nurses, practical, licensing, etc., amend act—
law, 15708
reports, 15851, 16088

District of Columbia—Continued
Old Georgetown Market, preservation and use—
law, 15767
reports, 8642, 16116
optometry, practice, regulate, hearings, 7130, 11647
parking facilities, establishment—
hearings, 5803
report, 10305
Pennsylvania Avenue, administration as historic site—
hearings, 11662, 11812
reports, 11623, 11739
physical abuse of children, mandatory reporting by physicians, reports, 17200, 17288
physicians, liability in good Samaritan cases, relieve, law, 441
picketing within 500 ft. of any church, prohibit, report, 12984
police and firemen's salary act of 1958, amend—
hearings, 10237, 10338
reports, 15853, 16139
Police Department—
band, include members of Fire Department, etc., report, 15872
reorganization, Congress to review report of D.C. Crime Comm. first, report, 12986
report of President's Commission on Crime in D.C., 15262
post offices, accelerated business collection and postal delivery program, GAO review, 10625
postal map, 13933
premarital examinations, require—
law, 17148
report, 17286
principal electric facilities, map, 7374
prisoners, work release program, authorize, report, 17294
public assistance act, amend, report, 544
Public Health Department, hospital and surgical-medical insurance benefits available under Blue Cross-Blue Shield plans, GAO report, 4498
Public Service Commission, report, 4262
recorder of deeds, transfer functions—
law, 11589
report, 10119
registration of trade names, etc., require, report, 8732
revenues, providing additional—
hearings, 1936, 7131, 8771, 13026
law, 15777
report, 10283
Sanitary Engineering Department, need for reappraisal of task system assignments for collection of refuse, GAO report, 2083
school census, amend act, report, 13140
schools and poverty—
investigation, hearings, 4129
task force study, 11650
Shaw Junior High School, early land acquisition—
law, 15746
reports, 12916, 17486
Shrine convention, 1967, promulgate regulations—
law, 17091
report, 15854
site for Organization of American States headquarters and international center, acquisition, etc., authorize hearings, 17392
southwest area lands, transfer of title, law, 419
stadium construction, change orders and other matters, GAO review, 14733

District of Columbia—Continued
stock insurance companies, regulating—
law, 8478
reports, 497, 8735
teachers—
pay increase—
hearings, 13027, 13205
report, 12971
pensions, increase—
law, 11590
report, 8743
performing extra classroom duties, additional pay—
hearing, 13205
reports, 12971, 13149
salary act of 1955, amend, reports, 16139, 17312
transit compact, approval—
hearings, 15983
message from the President, 15783
reports, 15891, 16107
transportation for region, participation in planning, authorize hearings, 1936
transportation planning, hearings, 7131
trust funds, legal investments, list, 5858, 14525
United Planning Organization, antipoverty programs, investigation, hearing, 14415
vocational education and schools, hearings, 11648
vocational rehabilitation act, amend to provide fixed allotment percentage of allocated funds, report, 17271
workmen's compensation act, 13285
District of Columbia Armory Board, change orders and other matters, construction of stadium, GAO review, 14733
District of Columbia, Committee, House:
calendar, 3114
committee prints, 1852–53, 4127
hearings, 5687–88, 7129–31, 10237, 11646–648, 13025–27, 15965, 17370
investigations and studies, organization, etc., of Government of D.C. expenses, report, 5645
reports, 479–80, 497, 8640–43, 10119–120, 12905–906, 12915–917, 12971, 12984, 12986, 15789–790, 15851–855, 15870–872, 17200–201, 17294
District of Columbia Committee, Senate:
calendar, 3134
hearings, 1936, 5803, 8771, 10337–339, 13205
reports, 544, 8732–35, 8743, 10283, 10305, 13140, 13149, 14454, 16045–46, 16088, 16110, 16114–118, 16139, 16147, 17414, 17485–486, 17488
District of Columbia Redevelopment Land Agency:
act, amend, land acquisition for Shaw Jr. High School—
law, 15746
reports, 12916, 17486
southwest area lands, transfer of title, law, 419
District Office Operations Bureau, SSA, regional offices, map, 11231
Dittemore, William H., jr., soil survey of Gaines County, Tex., 9712
Diuron, effect on seed yields of perennial grasses, 14163
Divers:
estimation of size and distance underwater, 13664
Navy diving manual, change, 1455
Diversification (industrial):
defense industry, analysis with 12 case studies, 6825
wasteful diversity in motor engine building, USSR study, 965
Diversity-lock phase demodulator, 7861
Dividends, *see* Corporations—Life insurance—Stocks.
Dividers, *see* Frequency dividers—Voltage dividers.
Diving:
mammals, cardiovascular responses to apnea, 8214
Navy manual, change, 1455
Division of Hospitals, PHS, facilities, management data statistical summary, 1417
Divorce:
laws, 5235, 16907
records, United States and outlying areas, where to write, 5123
registration in United States, 12475
statistics analysis, 1444
vital statistics of U.S., 1445
Dixon, James P., air conservation report reflects national concern, 1411
Dixon Entrance to Cape Spenser, coast pilot, supplement, 5535
DLSC, *see* Defense Logistics Services Center.
DNA, *see* Desoxyribonucleic acid.
Dobson, John, instructions in use of protection factor estimator, 12746
Docking (spacecraft), *see* Spacecraft.
Docks:
data, Port of New York, N.Y. and N.J., 13293
floating, Federal item identification guides for supply cataloging, supplements, 2940
Doctors, *see* Physicians.
Doctors' degrees, *see* Degrees (colleges, universities, etc.).
Documentation:
cooperation, etc., among information systems, literature review, 11091
mechanized, statistical association methods, symposium, 7913
Documents, *see* Congressional documents—Government publications—Records—*also* subject of documents.
Documents Office, *see* Public Documents Division.
DOD, *see* Defense Department.
DOD pamphlets, 107, 3807–8, 5338, 6823, 8222–23, 9882, 12648, 14203–205, 15502
Dodd, Thomas J., investigation, hearings, 16198
Doder, Dusko, relief, 13103
Dodge, Franklin T., moment of inertia and damping of liquids in baffled cylindrical tanks, 6334
Doering, H., examination of electron bombardment heating for effects on tensile properties of tungsten, 1371
Doerr, Robert M., high temperature corrosion studies, influence of yttrium on oxidation of nickel at 1,200° C, 12255
Doggett, Robert V., Jr., buffet response of Apollo boilerplate service module, 4895
Dogs:
anesthetized—
cardiovascular effects of 1,1-dimethylhydrazine, 96
effects of hydrazine on blood glucose and muscle and liver glycogen, 9864
certified products for, regulations governing, 1954
delayed reactions, characteristics and origin, USSR, study, 16496
poisoned with soman, electrocardiographic observations, Bulgarian study, 13504
spinal cord, effects of profound hypothermia, histologic study, 80
test, effects of flight of Kosmos-110, USSR study, 12138
used for research, etc., regulate transportation, sale, and handling—
hearings, 7108, 13200
law, 15726
reports, 8604, 8611, 11775, 13008
Doherty, Ellen M., education in Spain, 14549
Doing business with NATO, how U.S. companies can participate, 1691
Dollar drain, *see* Balance of payments.

Dollars:
purchasing power of consumer dollar in United States cities, 4739
standard silver, held by Treasury, sale to American Cancer Society and American Heart Association, hearings, 14414
use of dollars rather than foreign currencies to pay U.S. expenses in Korea, IDA, Treasury Dept., State Dept., GAO report, 812
Dolls, market for, in France, 347
Dolomite, Simonson, Devonian age in Pequop Mountains and Wood Hills, Nev., 16355
Dolores project, construct and operate, Interior Dept. report, 12851
Dolph, R. E., important insect outbreaks in Oregon and Washington in 1965, 787
Dolphins, Soviet communications research, 14957
Domestic and foreign coins manufactured by mints of United States, 1792–1965, 17870
Domestic commerce, *see* Commerce.
Domestic Gold Production, Select Committee on, Senate, create, hearing, 14486
Domestic relations court:
family courts, standards, 9976
legal bibliography for family courts, 9974
Domiciliary Care Conference, *see* Multi-disciplinary Conference on Domiciliary Care.
Dominican Republic:
crisis, hearing, 1948
Soviet clergyman attacks U.S. action in, 14904
special study mission, report, 12963
Dominick, Allen E., conveying mineral interests to, 17415
Domitz, Stanley electromagnetic accelerators for space propulsion, 7853
Donald, James R., talk, Nov. 17, 1965 4289
Donaldson, Erle C., two- and three-phase relative permeability studies, 15027
Donaldson, James G.:
vapor deposition of—
cobalt-tungsten alloys, 2355
molybdenum-tungsten alloys, 17862
Donnelly, Charles H.:
national security management review, 14786
United States defense policies, 14380
Donovan, Anne C., hospital dietary services, 13972
Don't help hitchhiking bugs, 9832
Don't walk away from security! 13253
Doors:
concealed hinge permits flush mounting, 13771
fire and smoke barriers, 7909
lightweight, seals cryogenic container against diaphragm type loading, 4891
Dope (coating material):
aluminum doping improves silicon solar cells, 10992
Doppelt, Fredric F., program for spatial disorientation demonstrator, 1624
Doppler effects, atlas of solar flare effects in ionosphere observed with high-frequency technique, 5018
Doppler radar:
probing air motion by Doppler analysis of radar clear air returns, 11317
turbulence in precipitation, measurements, 16412
Dorman, Elsie S., employment service review, journal of Federal-State employment service programs and operations, 2884
Dorsch, Robert G., distributed parameter analysis of presure and flow disturbances in rocket propellant feed systems, 13833
Dorsett, George F., proceedings against, report, 4097
Dose to various body organs from inhalation or ingestion of soluble radionuclides, 15532
Dosh, R. N. Bert, Lock, *see* R. N. Bert Dosh Lock.
Dosimetry:
accelerator radiation, and experience, AEC symposium, proceedings, 12674
gamma irradiation dosages for disinfestation of fruit and vegetables, annual report, 8296
neutron and gamma dosimetry, 142
Doss, Mildred A., index-catalogue of medical and veterinary zoology, trematoda and trematode diseases, 9794
Dot patterns provide reproducible flaw areas for study of adhesive bonds, 15098
Doty, Robert D., snow loads on roofs in areas of heavy snowfall, 16323
Dotye, M. M., industrial diamond and small diamond dies, U.S. consumption and trade, 9943
Double-focusing magnetic mass spectrometer for satellite use, 6422
Doud, Bobbie:
education associations, directory, 16230
publications of Office of Education, 14562
Douglas Aircraft Company, Inc., President's E award for excellence in exporting (remarks), 8434
Douglas fir, *see* Fir.
Doumani, George A., Antarctic bibliography, 1099
Doves, *see* Mourning doves.
Dow, Donaldson A., buckling and postbuckling tests of ring-stiffened circular cylinders loaded by uniform external pressure, 1274
Dow, Norris F., mechanics of filamentary composites, 13708
Dow Chemical Company, conceptual design of 50 MGD desalination plant, 6058
Dowd, Patrick J.:
effects of congenital feline cerebellar hypoplasia on developmental behavior and vestibular system, 12628
effects of flying experience on vestibular system, comparison between pilots and nonpilots to coriolis stimulation, 9877
speed of recovery from coriolis stimulation in motion sickness in relation to pilots and nonpilots, 14194
Downs, Eldon W., Air University review, 2665
Downs, R. J., light and plants, series of experiments demonstrating light effects on seed germination, plant growth, and plant development, 8150
Downwash (aircraft):
VTOL, exhaust jet wake and thrust characteristics of nozzles designed for suppression, 4828
Draft (military), *see* Conscription.
Drafting:
automated system uses computer techniques, 13797
technology and manpower, 1965–75, report, 17800
Draftsmen:
employment outlook, 9284
patent, rules of practice relating to drawings, guide, 12446
pay, survey, 2303
Drag (aerodynamics):
additive drag coefficient for inlets utilizing right circular cones, charts, 11061
attainment of high lift-drag ratios at hypersonic speeds, errata, 1245
coefficient of small spherical particles, shock tube determination, 7739
decelerator in wake of X–15 airplane model, 6450
drag due to lift at subsonic speeds, factors affecting, 16664
lateral-range and lift-drag-ratio requirements for return to both optimum and nonoptimum recovery sites, definition, 11079
low-drag bodies of revolution, characteristics, 4920

Drag (aerodynamics)—Continued
maximum lift-drag ratios of slender wing-body configurations at hypersonic speeds, geometric modifications, effect, 7829
pointed and blunted 30° half-angle cone at Mach numbers from 11.5 to 34 in air, 4939
pressure drag due to 2-dimensional fabrication-type surface roughness, 15151
roughness drag at supersonic speeds, 16669
subsonic, of elliptical forebody, effects of bluntness, 9519
wave drag at lifting conditions, analysis, 16666
X-15 airplane characteristics, summary, 7862
Drag (hydrodynamics):
reduction, naval hydrodynamics symposium, 16753
Drain pipe, *see* Pipe and pipe fittings.
Drainage:
airfields and heliports surface facilities, Army technical manual, 1654
airports, 3804
areas other than airfields, Army technical manual, 8262
establishing turf, emergency construction, Army technical manual, 3834
sedimentation in small drainage basins (series), 14754, 16363
slash pine response, 16331
subsurface facilities, emergency construction, TM manual, 16963
see also Mine drainage.
Drains, scupper drain attachments to vessels in drydock, maritime safety data, 7656
Drama, catalog of copyright entries, 596, 11838
Drawing machines, industrial plant equipment handbook, 8803
Drawings:
manufacturers part and drawing numbering systems, Defense Dept., 5843, 10383, 14514
Navy design manual, changes, 6707
patent, rules of practice, guide for patent draftsmen, 12446
Dreams:
current research, 1307
during normal sleep and during hypnosis, USSR study, 14849
Dreher, Robert C., ground-run tests with bogie landing gear in water and slush, 13827
Drennan, Henry, little miracle on Chapel Street, 17623
Drews, William A., thermistor arrangement to improve temperature measurements at high altitudes, 13716
Dried foods, *see* names or classes of foods dried.
Driers, *see* headings beginning Dryers.
Drill and minor tactics, basic drills, Naval reserve training guide, 13904
Drilling, *see* Diamond drilling—Rock drilling—Well drilling.
Drills (tools):
continuous borer, use in mining pitching anthracite beds, 9380
drill bit design assures clean holes in laminated materials, 4879
hand drill adapter limits holes to desired depth, 7779
inelastic deformation of rock under hemispherical drill bit, 16582
modified drill permits one-step drilling operation, 9476
Drive shafts, hypercritical, dynamics on flexible supports, 136
Drivers, *see* Automobile drivers—Motor vehicle operators—Race car drivers.
Droos, A. T., obtaining individual eggs from egg-mass-depositing insect, 14709
Drop outs, *see* High schools—School attendance.
Drop structure, Cayuga Inlet, Cayuga Lake, N.Y., 5888
Drop-weight testing of explosive liquids, 12254
Dropwise condensation characteristics of permanent hydrophobic systems, 9041
Drought, simulated, pine seedling survival, 16333
Drowning, *see* Near-drowning.
Drug addiction, *see* Narcotic habit.
Drug stores, *see* Stores.
Drugs:
abuse control amendments of 1965—
FDA conference, proceedings, 10550
report, 1911
abuse problem, 10548
animal drug amendments of 1965—
hearing, 11667
report, 15944
census of manufacturers, 1963, industry report, 6901
code of Federal regulations, 7393, 8908
commodity transportation survey, shipper series, 213
companies, physician ownership, report of subcommittee, 10355
coverage of expenses under medical insurance benefits, report, 17521
drug habit, big problem! 10547
effect of pharmacological agents on motor function of small laboratory animals, electronic integrator for quantitative evaluation, USSR study, 953
effects on rats under ambient and low temperatures measured by avoidance response, 5315
first facts about drugs, 10546
food, drug, and cosmetic act—
amend—
hearings, 15979
reports, 15944, 17269
amendments of 1965—
hearing, 11667
report, 1911
enforcement and compliance, FDA report, monthly, 2915
enforcement regulations, 16318
notices of judgment, 3281
text, 11984
food, drug, and cosmetic laws, State officials enforcing, directory, 5967
furnish to certain service-connected veterans, report, 10131
furnish to veterans receiving pensions for regular aid-and-attendance, reports, 17204, 17220
import detentions, report, 3465
interagency coordination, report, 8759
pharmaceutical industry, 1959–65 and 1968, R & D manpower trends, 11112
pharmaceutical preparations, except biologicals, shipments, current industrial reports, 1734
pharmaceutics, development in Ukraine, 6244
planning in chemico-pharmaceutical industry, USSR, 4613
prescribed for welfare recipients in Pennsylvania, Federal financial participation in costs, Welfare Administration, HEW, GAO report, 4505
psychopharmacology handbook, animal research, 18069
publications, price list, 11179
purchase, problems and policies, study, 11321
R legend, FDA manual for pharmacists, 7447
radioactive pharmaceuticals, symposium proceedings, 12675
safe use of drugs, 5968
safety, hearings, 14423, 15971

Drugs—Continued
systemic effects of alcohol alone and in combination with other drugs, influence of variations in environmental temperature, 3781
therapeutic, effects of cold exposure upon action, 9860
USSR, Hungarian scientist visits and describes Soviet research institutions, 9102
see also Narcotics—Tranquilizing drugs—Veterinary medicine—*also* names of drugs.
Drums (containers):
steel shipping, current industrial reports, 2817, 11466
Drury, Ill.:
bridge across Mississippi River—
law, 12826
report, 13126
Dry batteries, *see* Electric batteries.
Dry cells, *see* Electric batteries.
Dry cleaning:
coin-operated and nonautomatic, bibliography, 11221
industry, study of problems and prospects, 1693
military fixed drycleaning plant, Army technical manual, 14229
Dryden, Hugh L., address, Mar. 11, 1965, 1288
Drydocks:
facilities, Navy design manual, changes, 1569
scupper drain attachments to vessels in drydock, maritime safety data, 7656
Dryers (industrial):
driers, dehydrators, and anhydrators industrial plant equipment handbook, 10389
seed cotton drying system, experimental and conventional, comparative effects on cotton fiber properties, 6755
Soviet conference on industrial drying processes, 16503
Drying:
equipment, Federal item identification guides for supply cataloging supplements, 2935
nighttime drying in Santa Ana Mountains, 2068
solar, of tropical hardwoods, 16338
trays, malathion-treated to protect raisins from insects, 14111
see also names of substances dried.
DSA, *see* Defense Supply Agency.
DSA–DLSC manual, 16211
Du, Li-jen, electrodynamics involving moving media, 12268
Dual calsphere experiment, 1365
Dual regulator controls 2 gases from single reference, 9474
Dual-voltage power supply has increased efficiency, 4839
Dubinin, Nikolay P., achievements in science of genetics, USSR study, 10821
Dubois, Donald P., STORET II, 17671
Ducassi, Enrique R., relief, 15689
Ducey, John M., loan closing costs on single-family homes in 6 metropolitan areas, 838
Duckett, Roy J., velocity measurements in Langley hypersonic arc tunnel, 7843
Ducks:
aerial surveys of waterfowl in eastern Canada, 10539
migratory, Federal regulations, hearings, 17390
raising, 6744
wild, on farmland in South, 8146
see also Teal.
Duckworth, W. Donald, neotropical microlepidoptera, 8, review of genus Falculina, 5044
Ducted fans, four-foot diameter, performance at zero angle of attack for several fan blade angles, characteristics, 2416
Ductility, steel, exhaustion under notch constraint following uniform prestraining, 14009
Ducts (air):
bellows joint absorbs torsional deflections in duct system, 13767
elevated tradewind, airborne early warning UHF radar observations, 7974.
external linkage tie permits reduction in flange thickness, 13761
Ducts (atmospheric):
ray tracing in rising and falling ducts, 1360
Duesenberry, James S., nomination hearing, 5799
Duffy, Leonard G., relief, 15807, 17423
Dugan, John V., jr., semiclassical approach to capture collisions between ions and polar molecules, 6426
Duggan, R. E., pesticide analytical manual, 11987
Dugout Project, *see* Project Dugout (Plowshare program).
Duke (Nakano), Noriko S., relief, 13096
Dulcan, Edward S.:
remarks—
Nov. 18, 1965, 351
Feb. 3, 1966, 4020
Dulles International Airport, high-speed ground transportation to, study, report 13153
Duluth, Minn., principal electrical facilities, map, 7376
Dumois, Juan A., relief, 17453
Duncan, Don A., helicopter fertilizing of foothill range, 17694
Duncan, Donald C., organic-rich shale of United States and world land areas, 2102
Dunham, Ralph E., faculty and other professional staff in institutions of higher education, 7306
Dunleavy, J. M., soybean diseases, 15440
Dunmire, Daniel E., effect of initial moisture content on performance of hardwood pallets, 14714
Dunn, M. G.:
continuous measurement of shock velocity using microwave technique, 10957
nonequilibrium ionization phenomenon in inviscid Apollo plasma sheath, 15077
Dunn, S. Thomas, flux averaging devices for infrared, 2455
Dunne, Phyllis, placing children of minority groups for adoption, 275
Dunning, Robert S., determination of orbit of spacecraft with respect to object in known circular orbit, 15150
Duplicating equipment, *see* Duplicating machines.
Duplicating machines, copying equipment, Army technical bulletin, 5368, 15514
Duplicators, *see* Duplicating machines.
Durham, David L.:
geology of Hames Valley, Wunpost and Valleton quadrangles, Monterey County, Calif., 13398
Pancho Rico formation, Salinas Valley, Calif., 820
Durum wheat, *see* Wheat.
Dust:
and throwout, safety evaluation, Isthmian Canal studies, 155
capability to support bearing loads, use of penetrometers to determine, 4946
inert, evaluation as protectant against insect attack on—
shelled corn in Georgia, 14109
stored shell corn in Illinois, 14108
stored wheat in Kansas, 14110
radioactive, retention by greenery, USSR study, 16403
see also Coal dust—Pneumoconiosis.
Dutcher, L. C., occurrence, chemical quality and use of ground water in Tabulbah area, Tunisia, 16362

Duthie, Richard E. C., nuclear powered submarines, 5422
Duties, *see* Tariff—*also* names or classes of articles imported.
Duty, honor, country (character guidance discussion), 5349
Duvall, Wilbur L., comparison between end and axial methods of detonating explosive in granite, 2349
du Von, Jay, campus landscape, 17620
Duwamish Indians, *see* Dwamish Indians.
Dvorak, Beatrice, J.:
changing emphasis in occupational test development, 663
program research on effectiveness of USES tests, 1989
Dwamish Indians:
funds, disposition—
law, 17143
reports, 12981, 17506
Dwarf mistletoe, *see* Mistletoe.
Dyer County, Tenn., soil survey report, 11234
Dyes and dyeing:
liquid, CHENIS container for lowering to any sea depths, USSR study, 14799
sea dye marker provides visibility for 20 hours, 13749
textiles, census of manufactures, 1963, industry report, 5440
Dynamic stability, *see* Stability of aircraft.
Dynamics:
capillaries and existence of plasma flow in pericapillary lymph space, 15146
effects arising from high-speed solidification, 1363
flight, USSR studies, 9151
human operator, time-varying model, characterization, Project Icarus, 13717
hypercritical shafts on flexible supports, behavior of floating ring dampers, 136
instability, of undamped bellows face seals in cryogenic liquid, 4944
model investigation of landings and slideouts of recoverable booster, 15141
neutron dynamics and control, symposium proceedings, 12672
stability and control of parawing vehicle, 12347
strength ratio as limiting parameter in shock design, 6555
touchdown, Monte Carlo approach for soft lunar landing, 1279
see also Aerodynamics.
Dynamometers, industrial plant equipment handbook, 16208
Dyna-Soar contract, *see* Government contracts.
Dyrness, C. T., effect of logging and slash burning on understory vegetation in H. J. Andrews Experimental Forest, 8961
Dysentery, acidophilous milk used in treatment, USSR study, 17751
see also Amebiasis.
Dysprosium, thermal flux perturbation by dysprosium-aluminum foils in water and uranyl fluoride-water solutions, 6428
Dzhugalo, Kazimir S., antibolshevist Ukrainian, suspected murder victim, USSR study, 7611
Dzyuba, I., Ukrainian writer, arrest, interpretation by Ukrainian emigre organization Prologue, 12110

E

E.E.C., *see* European Economic Community.
E.R.S., *see* Economic Research Service.
E.S.D., *see* Electronic Systems Division.
Eagan, Patrick E., relief of estate, 17426
Eagle, Alaska, phytoecology of greenstone habitat, 13396
Eagle (periodical), 2864
Eagles:
American (golden and bald), and their economic status, 14650
bald eagle, symbol of our Nation, 13350
Eakins, William J., initiation of failure mechanisms in glass-resin composites, 15039
Ear, function of cochlea, electrolyte content in biological fluids in hypoxia, USSR study, 16422
see also Vestibular apparatus.
Earl, Lewis H., manpower policy and programs, western European countries, 16515
Early, Larry J., development of small animal payload and integration with sounding rocket, 15081
Earned degrees conferred, 1963–64, bachelor's and higher degrees, 7302
Earner, John P., how to obtain birth certificates, 4161
Earnings, *see* Wages.
Earth:
brightness as planet, measurements, USSR study, 16408
convention in mantle, effect of low viscosity layer, 11396
crust—
and subcrustal layer, waveguides, USSR study, 6154
and upper mantle in eastern regions, of USSR, coordinating conference, 14803
and upper mantle of continents, USSR study, 16446
geophysical studies, USSR, 934
inelastic properties, USSR, 10802
radio wave propagation, USSR study, 2234
structure, in transition zone from Siberian platform to Taymyr downwarp, experience in using industrial explosions, USSR study, 14804
structure, study of seismic waves to determine, USSR, 4664
drilling super-deep wells in upper mantle, USSR study, 13474
equatorial ellipticity—
from drift of Syncom II, 12336–337
influence of gravity in determination, from Syncom II drift data, 9513, 13802
fourth order gravity field, drift of inclined-orbit 24-hour satellite, 15136
gravity, effect on man's gaits, 12339
gravity potential and force field through 4th order, 15137
ground shock effects due to Rayleigh waves generated by sonic booms, 9424
horizon, optical observations from earth satellite, deriving earth-centered datum, 7880
longitude gravity field as sensed by drift of synchronous satellites, 16658
peaceful uses of earth-observation spacecraft, 16602–604
philosophical speculations concerning life on earth and in outer space, 6148
planet, day horizon, brightness profile, USSR study, 16471
secrets of earth's interior, USSR study, 14807
seismic waves propagating in earth's mantle, dependence of absorption coefficient on frequency, 16444
terrestrial impact structures, bibliography, 16356
Earth blocks, building with stabilized-earth blocks, 3757
Earth mantle, *see* Earth.
Earth satellites, *see* Satellites.
Earth sciences, *see* Science.
Earthquakes:
aftershock mechanism and inelastic properties of earth's crust, USSR study, 10802
Alaska, 1964—
civil defense emergency operations, preliminary report, 8385
effects on communities (series), 4525, 6036, 13410
Homer area, effects, 13410

Earthquakes—Continued
Alaska, 1964—Continued
Kenai Lake, slide induced waves, etc., 13411
Prince William Sound, aftershocks, 12763
Prince William Sound epicentral region, gravity survey and regional geology, 13412
regional effects (series), 13411–412
Valdez, Alaska, effects, 6036
Whittier, effects, 4525
history, United States, 3992, 6982
prediction, ESSA symposium, 14577
United States, 317, 17051
USSR, 13492
western United States—
1931–64, investigations, 3993
1933–64, damage, review, 6984
worst killer may come from sea, tsunami warning (poster), 5524
Earth's field static calibrator for accelerometers, 5011
Earth's mantle, *see* Earth.
Earthwork and structures, site engineering, housing design notes, 6590
Earwigs, *see* European earwigs.
East (Far East):
agricultural situation, 7291, 14546
Defense Dept. civilian manpower policies, investigation, authorization, report, 17301
Far Eastern series, 6629–30, 8056–59, 9721–22, 11252–253, 15340, 18117–118
market profiles, 15647
mineral industry, regional review, minerals yearbook chapter, 7705
Peace Corps volunteers, 12451
special study mission report, 7099
East (Middle East):
accessions list, Library of Congress American Libraries Book Procurement Center, Cairo, 3195, 4742
economy and history, problems, 13543
Great Britain attempts to save its political and economic positions in Near and Middle East, 6110
social science research studies, list, 11249
Soviet criticism of western oil interests, 12100
translations, 3608
United Nations use of peacekeeping forces, 5693
East (Near East):
economy and history, problems, 13543
Great Britain attempts to save its political and economic positions in Near and Middle East, 6110
market profiles, 11519
mineral industry, regional review, minerals yearbook chapter, 12238
western oil interests in Near East, USSR view, 14926
East (U.S.):
blister rust control, economic guides, 10599
cost of transporting freight, 6085
fresh fruit and vegetable unloads in eastern cities by commodities, States, etc., 5833
oak wilt control programs, appraisal, 10590
East African Common Services Organization, agricultural commodities, agreement, 15357
East Asia, *see* Asia.
East Bay, sea lampreys, control with toxaphene, 11977
East Chicago, Ill., commodity transportation survey, production area series, 6919
East Europe, *see* Europe.
East Germany, *see* Germany.
East North Central States, *see* Central States.
East Pakistan, *see* Pakistan.
East South Central States, *see* Central States.
East Stroudsburg, Pa.:
flood control, engineer report—
departmental edition, 671
document edition, 537
East tintic district, Utah, underground temperatures and heat flow, 4521
East-West trade, *see* Commerce.
Eastern Aden Protectorate, *see* Aden.
Eastern Aid Lines, Inc.:
accident, 12736
emergency board report, 13284
Eastern Europe, *see* Europe.
Eastern Greyhound Lines, accident, 9058
Eastern Hemisphere, *see* Hemisphere, Eastern.
Eastern States, *see* Atlantic States—East (U.S.).
Eastern Test Range:
supply management, consolidation under Air Force Dept.—
hearings, 4123
subcommittee report, 5685
wind velocity profiles measured by smoke-trail method, 6453
Eastern Utilization Research and Development Division:
engineering research, 25th anniversary review, 9788
publications and patents lists, 3737, 15437
Eastern white pine, *see* Pine.
Easton, Pa.:
area wage survey, metropolitan area, 10869
commodity transportation survey, production area series, 9952
Eastport, Maine, to Montauk Point, N.Y., coastal warning facilities, chart, 15418
Eat to live better, 6765
Eaton, Esther M., source materials for secondary school teachers of foreign languages, 7321
Eave, Hilda M., relief, 1808
Eaves, George N., mechanisms of tryptophan pyrrolase inhibition during endotoxin poisoning, 6797
Eavesdropping, laws relating to, 17586
Eberle, A. R., preparation of synthetic boron isotopic mixtures for mass spectrometric determination, 11426
Echenique, Jorge G., relief, 8698, 15673
Echinoids, *see* Sea urchins.
Echo, radar, patterns and process, statistical properties, 12563
Echo satellites, *see* Satellites.
Eckerson, Louise O., scope of pupil personnel services, 16240
Eckert reference formulation applied to high-speed laminar boundary layers, etc., 7740
Eckstrom, Clinton V., disk-gap-band parachute used for low dynamic pressure applications, etc., 10968
Eclipses, burns in humans and laboratory threshold measurements in rabbits, 12634
Ecologo-neorphological characteristics of early stages of Aral pelecus cultratus (L.), USSR, 13573
Ecology:
cesium 137 facility for ecological research, development, 8293
ecological research and surveys, conduct program, hearing, 17583
Gila trout, 14679
herring gull, southern coast of Aral Sea, USSR study, 4632
iguanid lizard Tropidurus torquatus at Belem, Para, aspects, 14015
phytoecology of greenstone habitat, Eagle, Alaska, 13396
plants, Death Valley, Calif., 7487
radioecology, terrestrial and fresh water, bibliography, 11434
see also Paleoecology.
Economic assistance, *see* Foreign aid.

239-221—67—No. 863——16

Economic concentration, hearings, 1943
pts. 2 and 3, print additional copies, report, 558
Economic conditions:
advance of women and international cooperation (remarks), 1554
Commerce Department, agency of business, promotes economic growth, guidebook, 10047.
contribution of social welfare to economic growth (address), 11318
current condition (remarks), 8105
debt management in prosperous economy (remarks), 9745
economic development of small nations desirable for all (remarks), 1523
economic factors in urban planning studies, 8109
economic indicators, 2874
economic progress in black and white (remarks), 3998
economics of integration (address), 8413
education and work life in changing economy, 12222
expanding employment in pluralistic economy, 17803
expansion (remarks), 6678
expansion, its balance and durability (remarks), 1516
Federal expenditures to States and regions, distribution and impact, study, 13213
Federal Reserve's role in economy (remarks), 728
growth—
and international liquidity (remarks), 12548
and patent system (address), 1389
continued growth accompanied by rising expectations (address), 5543
improved statistics, comments by Govt. agencies, 5595
long term, 1860–1965, statistical compendium, 13595
national growth and problem of inflation (remarks), 9751
problems and opportunities in future (address), 5541
high employment economy, strategy of monetary policy (remarks), 16286
identifying regional needs and approaches in depressed areas (address), 323
impact of Federal procurement—
background material, 5592
hearings, 10093
impact of U.S. ocean ports, 14988
influence on children, research programs, studies in progress, 12734
national economy, problems, prospects (remarks), 11301
national economy, publications, price list, 17993
outlook (address), 8422
outlook, 1966, and 1965 year-end review, 1771
parity of income and opportunity for rural America (address), 14126
perspective and prospects of economy (remarks), 14321
President's proposals to suspend investment credit and accelerated depreciation (remarks), 16889
problem solving by joint Federal-local effort (address), 10012
proposals to hold cost-of-living line (remarks), 17799
public works and economic development act of 1965 (address), 1767
report of the President to Congress—
excerpts, 7210
extending date for transmission, law, 5576
hearings, 7050
report, 8547
Economic conditions—Continued
role of retailer and consumer in stimulating economic progress (address), 8421
Southern economic growth, Federal programs to encourage (address), 10020
technology and American economy, 7923, 13872
temporary suspension of investment tax credit and accelerated depreciation (statement), 16890
world wide defense expenditures and economic data by country, 8227
see also Negroes—*also* names of countries, States, etc.
Economic cooperation series, 6628
Economic development, *see* Economic policy—Foreign aid.
Economic development (periodical), 2873
Economic Development Administration:
administrator, nomination of Ross D. Davis, hearing, 13230
aims and administration of programs (address), 1767
aims for stimulating economic development (address), 5541
building communities with jobs, 1964, 7272
business loans, how to apply, 1965, 4263
contributions to Nation's economic growth and stability (address), 323
facts about EDA, 16217
grants and loans for public works and development facilities, 1968, 4266
mission (address), 5859
planning grants for economic development, 1966, 4264
press releases, 3356
programs to solve unemployment (address), 15639
research park, is it for your community, digest, 7273
technical assistance, what it is, how to apply, 1967, 4265
Economic geography, *see* Geography.
Economic Impact of Defense and Disarmament Committee, report, 1965, 1398
Economic indicators, 2874
Economic Joint Committee:
act establishing and rules, 5594
committee prints, 454, 4039–41, 5592–95, 7051, 10095, 11596, 12840, 12843–846, 14370–372, 14374, 14377, 15779, 17151, 17153
hearings, 455, 1792, 5596, 7050, 8485, 10093–94, 12841–42, 14369, 14375–376, 17152
supplement, 14376
publications and policies governing their distribution, 4039, 5593, 8484, 14374
report, 8547
Economic Opportunity Office:
administration of economic opportunity act, hearings, 8666
advisory councils, monthly newsletter, 13257
appropriation, 1967, supplemental, hearings, 15960
assistant director, nomination of Franklyn A. Johnson, hearing, 5820
community action program, 2776, 10405
deputy director, nomination of Bertrand M. Harding, hearing, 14500
JCH series, 10403, 13259
Nation aroused, 1st annual report, 8825
news summary of war on poverty (periodical), 8826
poverty program information, 8828
press releases, 3357
summer volunteer service, general information, 10406
Upward Bound project, 10407
VISTA volunteer (periodical), 16222
Economic order quantity, principle and applications, 14740
Economic orders, Civil Aeronautics Board, 3300
Economic planning, *see* Business.

Economic policy:
American industrial development and current economic expansion (address), 331
balanced growth without inflation (remarks), 6679
Coast and Geodetic Survey's products and services as related to U.S. continental shelf regions, 10002
community development district act of 1966, rural public services, etc.—
hearings, 8761, 14403
reports, 8740, 12918
contribution of cybernetics to economic development, USSR studies, 10775
coordination, and Federal Reserve action, hearings, 5596
print additional copies, reports, 7194, 10188, 10211
doing better job in development (address), 866
domestic and foreign (address), 11510
economic development of rural areas, role of local government, 13262
economic development programs, guide, 4002
economic opportunity act—
amendments of 1966—
hearings, 8666, 13059, 14498
reports, 10185, 12945, 12950, 16162, 17333
print additional copies, report, 13007
how migrant worker and his family have fared, 7280
July 1–Oct. 31, 1965 projects, 7281
of 1964, text as amended, 5862
economic policies and practices, foreign banking in U.S., 12840
economic policy and programs (remarks), 5195
economic responsibility in United States (remarks), 1522
economic stability through cooperation and government planning (remarks), 8106
EDA planning grants for economic development, 1966, 4264
expansion and interdependence, basic conditions for progress in achieving Atlantic Community growth (remarks), 2615
expansion of national economy (remarks), 1518
Federal expenditure control policy (remarks), 9749
Federal-local cooperation in development (address), 1766
Federal programs for individual and community improvement, catalog, 5860
Federal programs to encourage southern economic growth (address), 10020
forecasting of manpower requirements associated with economic development, 2294
future of current economic expansion and policies necessary to sustain it (remarks), 1515
Government and business cooperation to stabilize economy (remarks), 2617
international economic cooperation, appeal for renewal, 20 years after, 14377
international, new U.S. approach, hearing, 17152
maintaining and expanding American economy (remarks), 356
maintenance of stability in economy (address), 14320
marketing and regional development (paper), 14322
meeting challenges of Free World leadership (remarks), 6677
mobilization of Federal Government resources to relieve inflationary pressures (remarks), 16889
national objectives (remarks), 16883
Economic policy—Continued
national policies and climate for economic development (address), 322
New England, development, bibliography, 14007
1966, year of decision and of opportunity for international economic cooperation (remarks), 11300
President's anti-inflation program (statement), 16890
President's program for national economic responsibility (remarks), 15399
rebuilding economic foundations of long-term unemployment and low family income communities, Federal-State coordination (remarks), 14228
regional development—
dedication of laboratory, Drexel Institute of Technology (address), 8415
New England region (remarks) 5558, 5562
Ozarks region (remarks), 5559
Upper Great Lakes region (remarks), 5560
relocating workers used by governments of foreign countries, programs, 4040
rural public services, etc., message from the President, 5604
Socialist countries, levels of economic development, USSR study, 14811
Socialist economy, laws for control, USSR study, 1019
sustained expansion (remarks), 6678
Turkey 1960–63, Soviet survey of domestic policy, 7607
two world systems and their development tendencies, USSR study, 2248
U.S. policy and foreign investment (remarks), 11531
USSR—
controversy over recent developments in economic theory, 10777
conversion to new economic system, procedures and conditions, 10824
economic incentive for technical progress, conference, 9101
economic planning, 6198
expansion of scientific research for economic development, 14897
international economic relations, translations, 3670
new directions, 12843, 12846
new system of planning and economic incentives, 4663
party intervention in economic affairs, 12153
planning under new administrative conditions, 9121
significance of new economic reforms, 6171
system, translations, 3526
West Virginia, economic development problems (address), 320
where our Nation stands at home and abroad, Republican report, 89th Congress, 2d session, 17405
see also Inflation (finance).
Economic regulations, Civil Aeronautics Board, 2875, 6945, 14284
Economic research (Chinese periodical): translations, 3587
Economic Research Service:
agricultural economic reports, 5863–64, 10408–411, 11861–863, 13261–263, 16224, 17615–616
appropriations, 1967, hearings, 8648, 11787
ERS-foreign series, 626–628, 4285, 5867, 7289–91, 8830–35, 10415, 13265, 14544–546, 17617
ERS series, 622–625, 1971, 4279–84, 5866, 7286–88, 8829, 10413–414, 11864–865, 13264, 14534–543
foreign agricultural economic reports, 630, 4286, 7293–94
periodic reports, list, 3765

Economic Research Service—Continued
reports, checklist, 2745
research data on minority groups, reports, bibliography, 16934
Economic stabilization, *see* Stabilization.
Economics:
alcoholism, economic aspects, 15428
American, new War of Independence (remarks), 12549
application of game theory and cybernetics in economics, USSR study, 6212
application of mathematical methods in economics and effectiveness of capital investments, USSR studies, 4645
application of mathematical methods, USSR studies, 6111
careers, examination announcement, supplement, 296
changes in structure of capitalist ownership, USSR study, 6168
classification of information, USSR study, 952
contributions to economic geology (series), 10633
dairy marketing, bibliography, 13264
do you know your economic ABC's? explanation of gross national product and how it mirrors our economy, 15643
economic issues, overview '67 (remarks), 15652
health series, 13966
Hungarian, reform of economic guidance system debates, 13577
marketing research publications, reference list, 14534
reform of economics teaching in Volgograd higher educational institutions, USSR study, 13527
research programs, opportunities for schools of business administration (remarks), 338
socio-economic aspects of water resources, bibliography, 13427
teachers, advanced study, national defense institutes, manual, 5877
use of electronic computers in national economic planning, USSR study, 13472
USSR—
automation and control, 12093
economic-mathematical methods applied to economy, 14855
system, translations—
current developments, 3525
structure and policy, 3526
Economies in National Government:
Defense Dept. cost reduction program—
examination, 14408A
report, memorandum, 13243
Economists:
business economist and Government (remarks), 15642
employment outlook, 13594
examination announcement—
amendment, 14304
discontinuance notice, 1754
Federal government careers, 295, 14304
Economou, N., personnel propulsion devices for use in vicinity of moon, 4822
Ecuador:
amateur alien radio operators, authorization to operate, agreement, 5157
coastal, early formative period, Valdivia and Machalilla phases, 6499
foreign trade regulations, 12778
mineral industry, minerals yearbook chapter, 7691
ED&T report, 4437
EDA, *see* Economic Development Administration.
Eddy currents, and hysteresis losses of transformer lamination, application of Poynting theorem, 1276
Edelman, Louis A., analysis of U.S. exports of scientific, industrial and technical instruments, 1959–65, 9940
Edema:
administration of polyglucin (dextran) in treatment of edematous states, USSR study, 14906
cerebral, reserpine therapy, 3795
Ederma, Arvo B., administrative guide for Federal occupational health units, 12459
Edgar, Bart B., relief of estate, 5725, 7021
Edge, Philip M., jr., Langley low-frequency noise facility, etc., 4948
Edinger, L. D., data requirements for in-flight synthesis and multiple blender studies, 15055
Edith Nourse Rogers Memorial Veterans' Hospital, naming, report, 10136
EDPS, *see* Electronic data processing systems.
Edquid, Ralph T., relief, 5747, 8456
EDTA, *see* Acetic acid.
Education:
achievements and further recommendations, message from the President, 5616
basic, intermediate level, curriculum guide, 10419
adult—
civil defense course, student manual, 12745
civil defense, personal and family survival, teachers manual, 11884
grants to States to strengthen programs, hearings, 13226
American education (periodical), 2677
American, new programs (address), 8840
answer to poverty, school programs eligible for Federal aid, 4299, 13270
Army Dental Corps continuing program, 5360
assessment, what we don't know can hurt us (address), 4321
associations, directory, 16230
automation and technology in education, 17151
better schooling programs for educationally deprived children, 640
Bulgaria, 638
children in federally affected areas, 1965 annual report, 4295
children of deceased or disabled Philippine veterans, extend educational assistance benefits—
hearings, 16195, 17397
law, 17112
reports, 15867, 15878, 16134
children, research programs, studies in progress, 12734
Chile, education and social change, 11871
comparative, studies (series), 638, 11870–871
Congo (Leopoldville), developments, 14550
consumer, FDA student materials, 4431
creativity in education, PACE projects to advance, supplementary centers and services—
programs, 639
project applicant manual, 649
crucial issue (address), 10422
cybernetics helps pedagogy, USSR study, 13522
Defense Department education of dependents overseas, report, 7132
desegregation guidelines (address), 7317
direct vs indirect assessment of simple knowledge structures, 8193
directory, 10420, 11872, 16230
disadvantaged children—
conference proceedings, 13275
ERIC catalog of selected documents, subject index, 16227
selected documents, catalog, 16226
under 6, 5671
Eastern Europe, bibliography of English-language materials, 11870
economic opportunity act, press reports, 13303
education and training, passport to opportunity, 9026

Education—Continued
education, passion and action of our time, 4300
education, research and development and United States balance of payments (remarks), 16885
educational manual, 11840
enactments by 89th Congress, 1st session, 7227
equality of educational opportunity, report of survey, 13271, 14551
correlation tables, 14552
era of educational and cultural relations (lecture), 12524
exchange program—
agreements with—
France, 5162
Greece, financing report, 1914
Italy, 11270
Korea, Republic, 9733
Uruguay, 1496
contributions for binational programs, GAO report, 8983
international educational and cultural exchange, 8122, 11335
international teacher development program, 10426
exchange scholars, 785, 14691
Federal aid, schoolman's guide, 512
Federal money for education, programs administered by Office of Education, chart, 4302
Federal programs bring progress without controls, 16238
Federal surplus personal property acquisition, 9027
Federal surplus real property acquisition, 9027
first work of these times—
description and analysis of elementary and secondary education act of 1965, 643
report to the people, 7308
for world responsibility, excerpts from addresses at National Foreign Policy Conference for Educators, 16855
foreign aid program for 1967, new initiatives, 9053
foreign studies extension, overseas projects in education, 16232
Fulbright-Hays graduate fellowships overseas projects, 16233
goals, excellence and equality (address), 5873
goals for higher education, conflicts with Federal research programs—
academic communities, etc., responses to inquiry, print additional copies, reports, 10200, 10206, 17473
hearings, print additional copies, report, 10207
Government officials and employees, variation of 40-hour workweek for educational purposes—
hearing, 11679
law, 15703
report, 11624
grant programs, 7309
guidance, counseling, and testing personnel in State Department of Education, directory, 7301
handicapped persons—
adequacy of programs, hearings, 17372
children and youth, conference report, 10421
children, grant program for preparation of professional personnel, 4303, 7310
children, preparation of professional personnel, manual, 16239
head start child development centers—
daily program, 4273
equipment and supplies, 4277
good nutrition, 4272
medical guide for directors, 4271
parent participation, 4275
securing needed staff, 4270
Education—Continued
head start child development centers—Continued
selection and recruitment of volunteers, 4274
social services, 4276
health professions (address), 1418
health professions, publications, bibliography, 5108
health, report, 6575
high school isn't enough (address), 8844
higher and secondary, improve training of specialists and perfecting leadership in specialized education, USSR study, 16470
implications of technological change, 13872
improving instruction in public schools through title 3 of NDEA, 11874
increasing knowledge in changing world (remarks), 10843
Indian education (periodical), 12040
Indian, statistics, 4547
indicators, 3037
industrial arts, survey of programs, teachers, students, and curriculum, 13274
inservice, for school counselors, 647
integration and academic quality (address), 7314–15
international activities, multilateral and regional organizations, 18121
international education act of 1966—
hearings, 10238, 16193
reports, 10161, 17528
print additional copies, report, 13006
international education, past, present, etc., study, print as House document, reports, 17277, 17543
international programs, message from the president, 5607
Job Corps, youth conservation center, 7276
learning about learning, conference report, 8847
legislation approved Apr. 24, 1961–Nov. 8, 1965, 7133
legislative achievements, 4538
let us keep schools open (address), 4308
librarians, continuing education, conferences, workshops, and short courses, 8838
literature of profession, bibliography, 16231
Lorton Youth Center program, chance on the outside, 11867
many issues of today (address), 4310
materials, importation agreements, implement—
hearings, 11692
law, 17138
reports, 12978–979, 17500
materials, specialized equipment, free importation, report, 17306
mentally retarded, design of facilities, 16800
NASA educational publications, list, 10971
national defense education act—
educational media specialists, institutes for advanced study, manual, 5877
graduate fellowships, 1966–67 graduate programs, 4312
improvement of instruction through title 3, 5876
institutes for advanced study—
counseling and guidance, manual, 13276
proposals, manual, 5877
languages development program, research completed, etc., list, 1979
non-profit private schools, loans for teaching equipment, 4309
student loan program, college-work-study program and list of participating institutions, 1965–66, 7316
testing, guidance, and counseling programs, title 5–A, legislative changes, questions and answers, 653

Education—Continued
national trends, 13421
nonwhite women and men, educational attainment, fact sheet, 1553
nonwhite women, educational attainment, fact sheet, 16908
overseas projects, foreign curriculum specialists, 14553
parent and family life education for low-income families, 6942
part-time education in USSR, evening and correspondence study, 650
professional education projects in oral, head and neck cancer, guidelines, 5105
profile of youth, 17408
program evaluation and review technique, applications, 17624
projections to 1974–75, statistics, 1980
public, progress in United States, 1964–65, report, 4316
public, progress in United States, 1965–66, report 11879
French edition, 14559
Russian edition, 14561
Spanish edition, 14560
public welfare demonstration projects focus on education for AFDC youth, 16253
quality and opportunity, improvement, how your Government can help, 4307
recruiting for new partnership, among local, State, and Federal Government (address), 7318
reference facts, 6047
remedial, for NYC enrollees, technical information for project sponsors, 12201
report of Committee on Education and Training, National Citizens' Commission, 1545
report to the profession, 7303
research in State departments, 654
research training program, guidelines, 644
safety education series, 14681–682
school programs for educationally deprived children, basic facts for administrators, 1975
sign your own diploma (address), 8852
society improved by education of individual (address), 15840
sons and daughters of deceased or disabled veterans, assistance, eligibility, etc., 2621
sound basis for rehabilitation (remarks), 9202
Spain, data, 14549
State data and rankings, 16365
State educational records and reports series, glossary of standardized items and terms presented in handbooks, 13269
State leadership, improving, 16234
State records and reports series, implementing handbook 3, 8842
State responsibility, who's in charge here (address), 13281
summer seminars, overseas projects in education, 16243
surplus property utilization—
hearings, 15972
report, 17346
Sweden, data, 656
teachers, exchange opportunities, 14558
technology, educational, hearings, 14375
training activities under manpower development and training act, 9026
Ukraine, internationalist, 4613
upward bound, program to help youth from low-income families achieve college education, policy guidelines, etc., 7284
USSR—
administration of public education, 13513
changing guideposts, 14372
literature and art must portray correctly reality and ideological positions for youth training, (speech), 4685
Education—Continued
USSR—Continued
recent official decrees, 10786
science, news, 12146
veterans' educational assistance during June 1966, report, 17496
veterans, permanent program—
digest and analysis of bill, 5819
print additional copies, report, 7196
hearing, 5711
law, 5583
report, 4099
veterinary medical facilities, construction grants—
hearings, 11665, 17591
report, 15943, 17527
visually handicapped children, programs, 8839
war orphans assistance program, extend eligibility to period prior to Sept. 1940—
law, 449
report, 1828
white-nonwhite differentials, 837
who's afraid of the educated woman? (address), 7649
who's in charge here, balance between State responsibility and local control (address), 7326
women, educational attainment, 2629, 11330, 16909
work life in changing economy, 12222
year of progress under elementary and secondary education act (address), 4314
see also Audio visual instruction—Business education—Colleges and universities—Culture—Elementary education—Naval education—Personnel services in education—Programmed instruction—Religious education—Secondary education—Teaching—Technical education—Vocational education—*also* subject taught.
Education and Labor Committee, House:
activities and accomplishments, 89th Cong., 1st sess., 8665
calendar, 3115
committee prints, 512, 1855–56, 7132–33, 8665, 11649–650
hearings, 511, 1950, 4128–30, 5689, 5691, 8666, 10238–239, 10364, 13028–31, 14415–417, 15966, 17371–375
investigations and studies—
authorization, report, 506
expenses, reports, 494, 5643, 8575–77
operation of elementary and secondary schools by Federal agencies, etc, report, 17298
legislation concerning education and training considered Apr. 24, 1961–Nov. 8, 1965, 7133
reports, 1833, 1840, 5674, 5676, 7103, 8629, 8634–35, 10161, 10185, 12989, 15865, 15896, 15906, 17271, 17273
Education by television, *see* Television.
Education, National Advisory Council on Medical, Dental, Optometric and Podiatric, *see* National Advisory Council on Medical, Dental, Optometric, and Podiatric Education.
Education of Disadvantaged Children, National Advisory Council on, *see* National Advisory Council on Education of Disadvantaged Children.
Education Office:
annual report, 1965, on administration of laws granting Federal aid to schools, 4295
appropriations, 1966, supplemental, proposal, 5608
appropriations, 1967—
amendment, 17171
hearings, 8763
law, 10086
reports, 8592, 10281

Education Office—Continued
appropriation, 1967, supplemental hearings, 15960
bulletins, 1965 (series), 632, 637, 647–648, 650, 655, 1977, 4306, 4320
bulletins, 1966 (series), 4315, 5883, 8837, 8839, 10423, 10431, 11870–971, 13279–280, 14550
circulars, 1974, 1976, 1981, 4301, 5878, 7304, 7306, 7319, 7321, 7325, 8842, 8851, 10419, 11882, 13274
civil rights educational activities, appropriations, 1967, reports, 15938, 17539
Commissioner of Education, nomination of Harold Howe II, hearing, 5821
consultation, July 20–21, 1964, with State school guidance officials on vocational guidance for girls, 1563
cooperative research monograph series, 11881, 17624
Educational Research Information Center, advance information, 5872
Federal money for education, programs administered, chart, 4302
health programs, law, compilation, 13049
leadership training, career program, 17627
miscellaneous series, 4318, 7302
publications, 14562
publications of research to be placed in public domain, regulations governing, statement of policy, 652
records handbook, standard filing system, 14557
special publications, 5880
studies in comparative education, 638, 11870
Education, White House Conference on, *see* White House Conference on Education.
Educational and cultural diplomacy, 1964, 1490
Educational associations:
directory, 16230
USSR educational organizations, activities, 16414
Educational boards and departments:
research in State departments of education, 654
State departments, strengthening, programs, 642
State, improving leadership, 16234
Educational Exchange, Franco-American Commission, *see* Franco-American Commission for Educational Exchange.
Educational institutions, *see* Colleges and universities—Schools.
Educational Research Information Center:
advance information, 5872
catalog of selected documents on the disadvantaged, 16226
subject index, 16227
ERIC, national information system dedicated to progress of education, etc., 17621
information storage and retrieval system, how to put 2½ tons of research into one handy little box, 8845
Educators, employment opportunities overseas, 4251
Edwards, Frederick G., use of reaction wheels and nonlinear control for satellite scanning small celestial area, 15184
Edwards, Geniana R., agricultural economy of Finland, 17617
Edwards, Oliver J., optical absorption coefficients of fused silica, 6440
EEC, *see* European Economic Community.
EEG, *see* Electroencephalograms.
Eel River Indians, *see* Miami Indians.
Effective use of sea, report of Panel on Oceanography, 13947
Efficiency ratings, common sense about evaluating and recognizing performance, 12552
Eggers, James M., velocity profiles and eddy viscosity distributions downstream of Mach 2.22 nozzle exhausting to quiescent air, 16673
Eggplant:
chilling injury of fruits, 14140
growing, etc., 8147
Eggs:
balsam woolly aphid eggs, collection techniques, 14710
black-headed budworm and hemlock sawfly, overwintering, 13359
cleaning, bacteriological, chemical, and physical requirements, 6759
commercial egg-producing farms, New Jersey, costs and returns, 621, 14532
foreign agriculture circulars, 2987
futures trading and open contracts, 3012
gypsy moth, mass density and subsequent defoliation, 8959
how to use USDA grades in buying, 16936
individual from egg-mass-depositing insects, obtaining, 14709
industry, organization and competition, 16724
appendix, 16721
know the eggs you buy (poster), 17601
mechanized egg-grading and packing equipment, evaluation, 12607
poultry and egg situation (periodical), 3433
supplement, 10413
pricing, present and alternative methods, 4284
processing plants—
chemical compounds authorized for use under USDA inspection programs, list, 10376, 16201
operating under inspection and grading programs, list, 592, 7243
production, disposition, cash receipts, and gross income, 1964–65, by States, 9737
production, home chicken flock, 43
production, monthly, 11280
production tests, U.S. and Canada, 1965 report, 3731
products, liquid, frozen, solid production, 2878
shell and frozen, futures, commitments of traders, 2765
standards for quality, poster, 7247
statistical series, selected, 10413
table, nationwide marketing orders, hearings, 5793
Egypt, *see* United Arab Republic (Egypt).
Eigenfunctions:
and eigenvalues for linear chain of atoms, 11100
eigenvalue problem for beams and rectangular plates with linearly varying in-plane and axial load, 15056
Eigenvalues, *see* Eigenfunctions.
Eilertsen, Donald E.:
barite, 16553
beryllium, 16554
graphite, 16557
lithium, 13686
Eilertsen, Nils A., mineral industry of Maryland, 1131
Einarsson, O., pattern synthesis problem for slotted infinite cylinders, 9422
Einstein, Albert, 8-cent commemorative postage stamp (poster), 5088
Eiras, Olibio S. Rodriguez-, *see* Rodriguez, Olibio S.
Eisele, Frederick R., area handbook for Morocco, 11401
Eisenhower trophy, NGB, announcement of winners, pamphlet, 5022, 17952

Eisenhuth, H. P.:
surface water records to Dec. 31, 1963, index—
Alaska, 2100
Hudson Bay and upper Mississippi River basins, 2098
Pacific slope basins in Washington and upper Columbia River basin, 2099
Eisler, Thomas J., Taylor instability in stratified flow, 16596
Eiss, Abraham L., thermoelectric bonding study, 4824
Ekman's problem, and oceanic circulation, USSR study, 13471
Elasmobranch fishes, *see* Fish and fisheries.
Elastic constants, *see* Elasticity.
Elastic strain, *see* Strains and stresses.
Elastic structures, *see* Tissues.
Elasticity:
anistotropic viscoelastic sandwich shells, 6344
cylinders, filament wound, elastic moduli determination, experiments, 1273
displacements in elastic half-space due to moving concentrated normal load, 12370
elastic constants of Greenland snow as determined from sonic wave velocity measurements, 9891
photoviscoelasticity, 9418
plane strain analysis, extension, 17878
randomly excited aluminum viscoelastic panels, sonic fatigue characteristics, 9400
stress concentration about curvilinear holes in physically nonlinear elastic plates, 4999
transfer function approximations for large highly coupled elastic boosters with fuel slosh, 9433
Elastomers:
extensometer automatically measures elongation, 12324
silicone, phenolic, and epoxy base heat-shield materials, evaluation, 17914
teflon coatings on vulcanizates, wear durability improvement, 1378
thermally stable, synthesis, 11095
Elder, Robert L., comparison of cesium-137 binding characteristics in Pangola hay and Spanish moss, 2522
Elderly people, *see* Aged—Aging.
Elections:
Academy of Sciences Kazakh SSR elects new vice-president, 7584
campaign information, factual, 4155, 11696, 17402
cooperative directors, assuring democratic election, 5909
electoral college system reform, message from the President, 4068
employee representation, conducted by NLRB, reports, 3229
Federal elections act of 1966, report, 16093
Guam Governor, popular election—
hearings, 11661
reports, 10143, 17518
Guam legislature, members from election districts, provide by law—
law, 15731
reports, 10139, 13178
investigation, expenses, report, 4201
law guidebook, 10276
print as Senate document, report, 10294
political campaigns, financing, hearings, 16182
reform act of 1966, proposal, 11608
Virgin Islands Governor, popular election—
hearings, 15975
reports, 10142, 17519
where votes are, profile of mid-1960's, rel. to voting habits of future, 14451
see also Contested elections.
Electoral college, *see* Elections.
Electric analog device for computing direct surface runoff, 9776
Electric apparatus and appliances:
consumer information, price list, 2519
cooling and coolants, bibliography, 3989
electric impulses revitalize muscles, Yugoslavian study, 10804
electrical power conversion equipment, industrial plant equipment handbook, 8802
electrical transmission, distribution, and industrial apparatus, census of manufactures, 1963, industry statistics, 8336
equipment components, Federal item identification guides for supply cataloging, supplements, 2936
merchant vessel equipment, Coast Guard approved list, 11507
salvaging flooded equipment, surface chemical methods of displacing water and/or oils, 6548
servicemen employment outlook, 9208
USSR industrial development, translations, 3662
Electric arc:
air heater, using direct current, operating characteristics as opposed to high-frequency alternating current, 7874
arc-melted tungsten, compared with electron-beam-melted, 4966
eliminated during electron beam welding by suppresor plate, 13792
furnace reduction of tin slag for production of columbium-tantalum-bearing alloy, 7707
heater is self starting, 11023
magnetically operated limit switch has improved reliability, minimizes arcing, 12312
megawat direct-current arc heating of nitrogen, 9536
Electric batteries:
auxiliary, use in silver cells, 6348
dry cells, current industrial reports, 250, 1731
dry tape battery concept, development, 2365
fuel cells, reaction heat used in static water removal, 4850
regenerative, combines high efficiency with low cost, 2382
resilient clamps holds fuel cell stack through thermal cycle, 4870
vapor diffusion electrode improves fuel cell operation, 13729
see also Storage batteries.
Electric bridges, Wheatstone bridge type of combustible gas indicator, maritime safety data, 16525
Electric cables:
armored, load-carrying terminals, 2493
consolidated identification list for test evaluation, Federal supply catalog, Defense Dept. section, 4254, 17611
power, fixed installation, Federal standard, 17667
shrinkable sleeve eliminates shielding gap in RF cable, 4880
thermoplastic insulated, general purpose, Federal standard cancellation, 17665
withstands severe environmental conditions, 10642
Electric capacity, *see* Capacitance.
Electric charges, *see* Space charges.
Electric circuits, *see* Circuits.
Electric coils, toroidal, computation of permeability and permittivity of small ring sample, 6479
Electric conductivity:
atmospheric electricity stations, measurements, 5070
changes produced in ice by optical irradiation 0.8 to 2.7μ, 15505
current distribution in thin film superconducting strip transmission line, 7863
electrically conductive fibers thermally isolate temperature sensor, 13784
role in hydromagnetic stability of parallel flows, 2428

Electric conductivity—Continued
sodium chloride conductivity, dependence on chemical nature of surface, 6427
tungsten-fiber-reinforced copper composites, 15183
see also Photoconductivity.
Electric conductors:
magnetic fields due to solid and hollow conical conductors, 2373
perfect rectangular conductor, magnetic field outside, 15177
special tool seals conductors with combination of plastic sleeves, 9499
see also Semiconductors—Superconductors.
Electric connectors, *see* Connectors (electric).
Electric contacts:
proceedings of conference, 4987
solid state detectors monitor relay contacts, 15126
Electric controllers, electrical control equipment, industrial plant equipment handbook, 16209
Electric current converters:
dc to dc converter eliminates large stray magnetic fields, 15106
rotating converters, industrial plant equipment handbook, 11844
Electric currents:
ac ground, phase, and neutral wires, 2-light circuit for continuous monitoring, 7808
coaxial Hall current accelerators, at moderate pressures, 16648
current distribution in array of superconducting thin films, 6456
direct, amplifier characteristics, tester for periodical registering, 7802
direct as opposed to alternating current in arc air heater, 7874
direct-current methods of prospecting, data interpretation, 10644
distribution in thin film superconducting strip transmission line, 7863
electric current stimulates heart action, USSR, 916
electropneumatic transducer automatically limits motor current, 7806
logarithmic amplifier, transistor circuit increases range, 13785
superconducting current-carrying capacity in niobium through hydrogen treatment, enhancement, 16693
Electric discharges:
electrical discharge machining of high-strength metals and alloys, USSR studies, 14832
electrode phenomena in high energy density discharges as applied to plasma acceleration problems, 12266
Electric energy, *see* Electricity.
Electric engineering:
Communist Chinese abstracts, 2772
East European abstracts, 2869
Navy design manual, changes, 6707
USSR abstracts, 3674
Electric engineers, employment outlook, 9236
Electric equipment, *see* Electric apparatus and appliances.
Electric fans, current industrial reports, 251
Electric fields, error in induced modes under Stix coil from assumption of orthogonality of natural plasma modes, 6438
Electric fishing device, Bureau of Commercial Fisheries, electrofishing shocker, characteristics and operation, 13348
Electric furnaces, electric arc furnace for reduction of tin slag for production of columbium-tantalum-bearing alloy, 7707
Electric generators:
and generator sets, industrial plant equipment handbook, 11844
coherent light generators and amplifiers, USSR study, 12174
Electric generators—Continued
gasoline driven generator set, rigged with portable floodlight set, airdrop procedures, Army technical manual, 9909
space power systems, 1-megawatt, use of generator with superconducting magnetic field, 7864
Electric heating, diaphragm, electrically heated eliminates use of pyrotechnics, 2403
Electric heating elements, low power, provides thermal control during swaging operations, 11003
Electric insulation, *see* Insulation.
Electric lamps:
automatically switches to new filament on burnout, 6372
current industrial reports, 2817–18
fluorescent, ballasts, current industrial reports, 2818, 12716
incandescent (10–300 watt), Federal standard, 7423
production, current industrial reports, 12714
Electric lighting, *see* Electricity.
Electric lines:
extra-high-voltage transmission lines construction, hearings, 17577
installation and maintenance of electric supply and communication lines, supp., 5004
overhead transmission line study, report, 16123
overhead transmission lines, research program, hearings, 13202
precision, coaxial, air-dielectric transmission lines, electrical parameters, 12385, 15207
single connector provides safety fuses for multiple lines, 6376
transmission line construction practices, coordination, Reclamation Bureau and Bonneville Power Administration, GAO report, 8984
underground transmission lines, research program, hearings, 13202
Electric machinery, *see* Machinery.
Electric measurements:
automatic control and methods, 2440
nonelectric quantities, theory, 2440
stannic oxide ceramics, 4831
see also Radio measurements.
Electric measuring instruments, logarithmic sweep, use in display of long pulses, 12434
Electric meters, moisture, effects of wood preservatives on readings, 2060
Electric motors:
dc brushes—
has high efficiency, long life, 13790
reaction wheel systems, 7724
electropneumatic transducer automatically limits current, 7806
industrial plant equipment handbook, 11844
Electric plants, *see* Electric power plants.
Electric potential, *see* Electromotive force.
Electric power, *see* Electricity.
Electric power distribution, *see* Electricity.
Electric power plants:
coal fired and nuclear, comparison for TVA system, 14046
construction basis, flow-line production methods, 2278
hydroelectric, 1964, construction cost and production expenses, 17655
operating period between major repairs, increasing, USSR study, 1030
space power systems, 1-megawatt, use generator with superconducting magnetic field, 7864
steam-electric plants—
construction cost and production expenses, 7373
TVA, statistics, 8098

Electric power plants—Continued
water resource appraisals for hydroelectric licensing, planning status reports—
Housatonic River basin, 4384
Kennebec River basin, 4385
Penobscot River basin, 4386
Piscataqua River basin, 4387
Presumpscot River basin, 4387
Saco River basin, 4387
Electric propulsion, *see* Propulsion.
Electric pulses, *see* Pulses.
Electric railroads, transportation statistics, 4585
Electric relays:
optimization of relay controlled system subjected to random disturbances, 10958
relays and industrial controls, current industrial reports, 5484
Electric resistance:
copper magnetoresistance devices as magnetometers, 13839
direct-current methods of prospecting, data interpretation, 10644
lung at 100 kc./sec., 12638
resistance coefficients for structural plate corrugated pipe, hydraulic model investigation, 8864
selenium bond decreases *on* resistance of light-activated switch, 1205
solid anthracite specimens, method for determining, 10926
tungsten-fiber-reinforced copper composite, 15183
Electric resistors, diffusion technique stabilizers resistor valves, 7796
Electric sleep therapy of hypertension, USSR, 12164
Electric switchgear:
compact SCR trigger circuit for ignitron switch operates efficiently, 1222
current industrial reports, 5484
electrically controlled optical latch and switch requires less current, 17892
key-locked guard prevents accidental switch actuation, 11027
lamp automaically switches to new filament on burnout, 6372
light-activated switch, use of selenium bond to decrease *on* resistance, 1205
magnetically operated limit switch has improved reliability, minimizes arcing, 12312
optically driven switch turn-off time reduced by opaque coating, 7795
safety switch permits emergency bridge crane shutdown, 9475
solid-state switch increases switching speed, 16644
switching mechanism senses angular acceleration, 9470
unified (integrated) switching system and multiplexing, application of pulse-code modulation (IKM) in building, USSR study, 926
zener diode controls switching or large direct currents, 1225
Electric tapes, *see* Tape.
Electric transformers:
complementary system vaporizes subcooled liquid, improves efficiency, 6371
distribution and power station transformers, industrial plant equipment handbook, 8800
dual-voltage power supply has increased efficiency, 4839
lamination, hysteresis and eddy-current losses, application of Poynting theorem, 1276
Electric utilities:
statistics,1964—
classes A & B privately owned companies, 8903
publicly owned systems, 11926
Electric waves:
distortion of unmodulated electromagnetic waves in nonlinear dispersing media, 6143
electromagnetic, use for terrain analysis, laboratory investigations, 680
ionospheric wave interaction experiments, numerical simulation, 1300
launching of surface electromagnetic waves on axial-cylindrical reactive surface, 4928
super-high electromagnetic waves, effect on mice, USSR study, 13558
Electric wire and wiring:
ac ground, phase, and neutral wires, 2-light circuit for continuous monitoring, 7808
consolidated indentification list for test evaluation, Federal Supply catalog, Defense Dept. Section, 4254, 17611
devices and supplies, current industrial reports, 5485
equipment, census of manufactures, industry report, 3902
Federal item identification guides for supply cataloging, supplements, 2936
lead wires, anchor buttons as attachment for biomedical instrumentation, 99
manufacture of cast microwire with glass insulation, USSR study, 13493
polyethlene terephthalate insulated ribbon wire, transient effects caused by electron irradiation, effects of shunt capacitance, 7849
power, fixed installation, Federal standard, 17667
sealing underwater exploding wires, 16754
thermoplastic insulated, general purpose, Federal standard, cancellation, 17665
wire memory matrix uses very little power, 1234
Electrical, *see* headings beginning Electric.
Electricians:
construction—
employment outlook, 9234
1 & C, Navy training program, 15243
interior communications—
1 & C, Navy training course, 9586
3 & 2, Navy training course, 13907
maintenance, employment outlook, 9250
supervisor, examination announcement, 9093
Electricity:
agriculture, growth of electrical load, mathematical equations to determine need, USSR study, 7613
all-electric homes, annual bills 4379
antitrust review, hearings, 17576
application of nuclear power installation for water desalination with simultaneous production of electric power, USSR study, 2210
Bonneville power generation and sales statistics, 8310
circuit protects power supply against overload current, 12330
complementary monostable circuits achieve low power drain and high reliability, 10991
current measurement in launch vehicle checkout, 16665
electric light and power occupations, employment outlook, 9299
electric lighting equipment, census of manufactures, industry report, 3902
Federal power act, regulations, 3460
fuels and electric energy used, annual, survey of manufactures, 12697
fundamentals as applied to Army aircraft, 8271
glossary of power and rate terms, 4382
interstate and wholesale aspects of electric power regulated by FPC, explanation, 11927
markets, Pacific Northwest base study, forest industries, 6875

Electricity—Continued
national electric rate book, 703–724, 2021–23, 3236, 4383, 10480–482, 11928–929, 13324–326, 16274–276, 17656–659
nonprofit cooperatives, exempt from FPC jurisdiction, clarify, hearings, 1931
Northeast power failure of Nov. 9 and 10, 1965—
effect on communications, 7360
report to the President, 725
responses to inquiries, report, 7189
nuclear power for generation of power (remarks), 9932
output-power capability, linear class B audio amplifier, load-impedance and waveform effects analysis, 16758
power and distribution equipment, Federal item identification guides for supply cataloging, supplements, 2936
power conversion equipment, industrial plant equipment handbook, 8802
power industry, civil defense preparedness, 11855
power management, survey manual, errata, 1200
power requirements and costs for high-capacity cotton gins, 11359
power statistics, 2879
principal electric facilities, map—
Alaska, Hawaii, Puerto Rico, Virgin Islands, 7381
Great Lakes region, 7375
north central region, 7376
northeastern region, 7374
northwestern region, 7377
south central region, 7379
southeastern region, 7380
southwestern region, 7378
properties of plastic materials, data compiled from technical conference search, 4259
publications, price list, 16788
purchased by REA borrowers, 1965, 1453
rates, TVA's influence, 5189
retail prices and indexes, 3474
RF absolute power at submillimeter wavelengths, ferroelectric bolometer measures, 6377
rural—
borrowers, statistical report, 16818
financing (remarks), 8011
materials acceptable on systems of REA borrowers, list, 3153, 6594, 15319
publications, price list, 5100
REA electrification loan accounts, establish, hearings, 13011
rural lines USA, story of cooperative rural electrification, 6761
statistical bulletin, 3446
underground distribution, 6595
United States, 1954–64, list of selected references, 17934
rural electrification act of 1936, amend—
hearings, 13011, 17356
proposed legislation, 11211
shipboard systems, Navy, 12419
thermal integration of electric power and life support systems for manned space stations, 1181, 16590
transient conditions of power systems, investigation by means of computers, USSR study, 14840
TVA—
municipal and cooperative distributors, 2609
power, annual report, 5187
power, program, 11293
sales statistics, retail distribution, 2880
typical bills, residential, commercial and industrial services, 5940
USSR, electric power, translations, 3617
wire memory matrix uses very little power, 1234
see also Atmospheric electricity.
Electroacoustics, USSR all-Union scientific session devoted to radio day, 14937
Electrocardiography:
observations of acute lethal poisoning of dogs with soman and prophylaxis with nemikon-4, Bulgarian study, 13504
use of expendable integral skin electrode, 7775
Electrocardiology, *see* Cardiology.
Electrochemical analysis, studies of acids, bases, and salts by emf, conductance, optical, and kinetic methods, 16717
Electrochemical Analysis Section, National Bureau of Standards, progress report, 16717
Electrochemical cells, *see* Cells.
Electrochemical milling removes burrs and solder from tubing ends, 13793
Electrochemistry:
demineralization of water with carbon electrodes, 10674
long pulses, display in transient measurements, use of logarithmic sweep, 12434
see also Electrochemical analysis.
Electroconvulsive therapy, *see* Electroshock therapy.
Electrodeless discharge lamp is easily started, has high stability, 4852
Electrodeposition:
actinides and lanthanides, 5394
aluminum from fused-salt electrolytes containing aluminum chloride, 10923
Electrodes:
argentic oxysalt, 4952
auxiliary, use in silver cells, 6348
carbon, electrochemical demineralization of water, 10674
carbon, improved, reduces arc sputtering, 4863
demineralization mechanism, 6067
dry, for physiological monitoring, 11052
gelatin-coated, allow prolonged bioelectronic measurements, 7764
guard electrodes in oil-well logging, response, 10921
imported for use in producing aluminum, suspension of duty, continue—
law, 10085
reports, 8562, 10303
integral skin electrode for electrocardiography is expendable, 7775
paste, for reliable measurement of galvanic skin response, 6375
phenomena in high energy density discharges as applied to plasma acceleration problems, 12266
plane parallel, flow of electrons through rarefied gas between, 13825
platinum, interaction of carbon dioxide with hydrogen chemisorbed, 16764
platinum, potential at low partial pressures of hydrogen and oxygen, 17977
reversible and irreversible, use in research on corrosion mechanisms in saline water, 12052
segmented, increases operating pressure of MHD accelerator, 1231
single collision model for electron-beam currents between plane electrodes, 1250
vapor diffusion, improve fuel cell operation, 13729
welding electrode-to-joint alignment maintained with photosensors, 4890
zinc, for electrochemical cells, improvement, 4832
Electrodialysis, *see* Dialysis.
Electrodynamics:
involving moving media, study, 12268
superconducting parallel path circuit, 16770
Electroencephalograms, H-response, aircrew personnel, 3799
Electroencephalography:
changes in orientation, etc., under effect of tranquilizers, USSR study, 948
wavemeter and integrator for evaluation of wave patterns and mean amplitude, USSR study, 1021

Electroluminescence, *see* Luminescence.
Electrolysis:
aluminum crimping sleeve prevents fish hook damage, 4405
electrolytic deposition of thick and reguline rhenium layers, USSR study, 929
etching process provides effective bonding surface on stainless steel, 13736
fused-fluoride electrowinning of thorium-base alloys, 10927
high dielectric thin films, electrolytic preparation, 4821
repetitive, influence on winning molybdenum, 16579
tungsten, electrowinning in halide and phosphate electrolytes, 7711
water vapor unit, design and development, 10613
see also Electrochemical analysis.
Electrolytes:
concentration gradients produced in electrolytes by magnetic fields, investigation, 9044
content in biological fluids in hypoxia and function of cochlea, USSR study, 16422
diffusion, diaphragm technique, principles and practices, 14771
electrorefining hafnium, 15022
fused-salt, containing aluminum chloride, electrodeposition of aluminum, 10923
halide and phosphate, electrowinning tungsten, 7711
life in winning tungsten for scheelite, 12259
parotid fluid, responses to exercise, 8219
transport through membrane systems, 16372
see also Polyelectrolytes.
Electrolytic cells:
cell with 4 variable compartments for rapid infrared analysis, 10925
mercury, use in flashing beacon, 1236
Electromagnetic accelerators, *see* Accelerators.
Electromagnetic compatability principles and practices, 1177
Electromagnetic current meter, current measurement with EMIT in Gulf Stream region, USSR study, 14800
Electromagnetic fields, influence on central nervous system, USSR study, 14823
Electromagnetic hammer, 2374
Electromagnetic hammer removes weld distortions from aluminum tanks, 1218
Electromagnetic pumps, *see* Pumps.
Electromagnetic radiation, hysteresis and eddy-current losses of transformer lamination application of Poynting theorem, 1276
Electromagnetic spectrum, *see* Spectra.
Electromagnetic waves, *see* Electric waves.
Electromagnetism:
electromagnetic forces on space structures, 10945
electromagnetic testing, inspection of materiel, handbook, 7269.
electromagnetic torques on spherical earth satellites in rarefied partially ionized atmosphere, 6471
Electromagnets, lifting, industrial plant equipment handbook, 7255
Electromechanical cells, *see* Electrolytic cells.
Electrometallurgy, correlation of yield behavior in electrorefined vanadium with interstitial impurities, 1169
Electromotive force:
electromotive analysis of acids, etc., by emf. conductance, optical and kinetic methods, 16717
potential theory for resistivity prospecting, data interpretation, 10644
Electron beams:
brazing use of split glass tube to assure quality, 7804
currents between plane electrodes from single collision model, 1250.
Electron beams—Continued
directed beam of high-speed electrons through mercury vapors in heated-cathode discharge tube, investigation, 4990
electron-beam-melted tungsten, compared with arc-melted, 4966
melting of metals, USSR studies, 6121
melting tungsten, effect of alloying on grain refinement, 13835
scanning, measurement of work-function variations, principles and instrumentations, 12424
seals outer surfaces of porous bodies, 6363
Soviet technology, 16440
suppressor plate eliminates undesired arcing during welding, 13792
welding of cooper-monel facilitated by circular magnetic shields, 11009
Electron bombardment:
heating, effects on tensile properties of tungsten, 1371
thrustor, 5-centimeter-diameter, with permanent magnets, 15199
Electron guns, Pierce-type, numerical analysis, 16760
Electron micrographs, high-contrast, for automatic metallographic analysis, use overlay copy technique to provide, 17921
Electron microscopes:
fractographs, interpretation, 9597
fracture examination, 1377
Electron microscopy:
biological macromolecules, USSR study, 13569
cold consolidation of metal plus dispersoid blends for examination, 12368
secondary emission electron microscopy for examining materials containing dispersed oxide particles, 16700
USSR studies, 12131
Electron probe microanalysis:
optical techniques, 2497
silicates, standards prepared by convenient method, 11026
Electron probe microanalyzer, measurement of backscattered electrons, 1155
Electron tubes:
and associated hardware, consolidated identification list for test evaluation, Federal supply catalog, Defense Department section, 8810
economies for making available to other Government users, FAA, GAO report, 7466
selection and use, military standards, 7264
Electronarcosis, sleep and electric sleep in children, USSR study, 14850
Electronic charge, *see* Specific electronic charge.
Electronic circuits, *see* Circuits.
Electronic composing system, 6045
Electronic computers:
all-Union conference on mathematical optimal programming, 1071
analog—
computation equipment, USSR catalog, 16502
dynamic correlation system, description and drawings, 17941
using for investigation of starting characteristics of M–1 rocket engine, 2422
analysis of interplanetary monitoring platform (IMP) spacecraft performance, 7860
automated drafting system uses computer techniques, 13797
automating compilation of programming programs, USSR study, 12096
BLS seasonal factor method (1966), application, 13592
Bulgarian construction industry computer center activities, 13535
Bulgarian training program for improving equipment, 16507

Electronic computers—Continued
circuit calculates cardiac output, 4843
Communist Chinese abstracts, 2770
composition system, guide for utilization, 6045
computer and invasion of privacy by Government agencies, hearings, 14422
computer center in higher educational institutions, USSR study, 6136
Czechoslovakia, produce or import automatic computers? 9135
determining error in system for automatic calculation of technical-economic characteristics, USSR study, 13481
digital—
analysis of bronchoscopic symptoms of pulmonary cancer, USSR study, 12132
application for approximation of discrete fields, USSR study, 12158
automatic synthesis program, users manual, 12265
COBOL, common business oriented language for programming, 5644
detection system ensures positive alarm activation in digital message loss, 12327
digital, and programming concepts, 17972
higher order interpolation path controller, 15182
instructor's guide for fire control technician training, 6527
lexical memory unit, USSR study, 885
OMNITAB, program for statistical and numerical analysis, 7911
plotting performance curves of screw propeller, USSR study, 1049
power switching, 13814
processing PFM telemetry data, 7722
root locus diagrams, 15059
spacecraft stabilization and control system study, 13713
trainee's guide for fire control technical training, 6528
East European abstracts, 2867
electrical analogies and vibration of linear mechanical systems, 12269
FET (field effect transistor) comparator detects analog signal levels without loading analog device, 11018
foreign affairs and computers, 18114
generation of quadrature coefficients utilizing symbolic manipulation language FORMAC, 13812
history, description, etc., understanding the atom series, 11442
hydrometeorological observations for processing, preparation of results, USSR study, 14869
IBM 7094 and 7094–704X systems, data loading routine, 7811
IBM 7094, MAP (Macro Assembly Program) fixed-point, packing-unpacking routine, 17690
MAP (Macro Assembly Program) fixed-7894
intraspecies biologic and behavioral variability studies, computer system, 12643
investigation of transient conditions of electric-power systems, USSR study, 14840
ISKRA–Z–23 V, Yugoslavian study, 16456
machine search algorithm for derivation in propositional calculus, USSR study, 14856
MAMOS, monitor system under IBSYS for IBM 7090/7094, 10955
MAP (Marco Assembly Program) fixed-point, packing-unpacking routine for IBM 7094 computer, 17690
mathematical analog in metallurgy, USSR study, 1008
MN–7 and EMU, operation experience, USSR study, 14851
Electronic computers—Continued
modeling human behavior, conferences on programming and automatic control, USSR studies, 13532
multichannel regulator connecting device for Dnieper universal general-purpose computer, USSR study, 13457
operating personnel, employment outlook, 9235
programming—
axisymmetric launch vehicles, 4809
charge distribution about space vehicle, 6346
computer system simplifies programming of mathematical equations, 13796
evolutionary, adaption to prediction of solar flares, 9396
fitting multi-component exponential decay curves, 3793
gas flow rates in piping systems, 12331
heat flow problems, 16627
hydraulic analysis of circular pipe culverts, 5125
information topics by clustering interest profiles, 5323
nonequilibrium expansions of reacting gas mixtures, solution, 10943
reduction and preliminary analyses of runoff data, 9
right-of-way traverse and area computation, 5126
selection of structural steel columns, 7769
soils tests data, 16817
space-charge-flow, 9522
STADAN station scheduling, 9501
summer mathematics school on methods of solving problems, USSR study, 7622
surface-fitting program for areally-distributed data from earth sciences and remote sensing, 1182
trip desire contour chart data preparation, 5127
radar landmass simulation, computer techniques, 9593
reading machines, USSR studies, 12089
reduced precision effect on midcourse navigation and guidance system using optimal filtering and linear prediction, 7890
Rumania, general-purpose computer developed, 14912
sampled data and switching logic, 9556
self-aligning system of programmed control of machine tools, USSR study, 1006
seminar work, USSR, 12094
simulation program, adaptable to industrial processes, 16641
simulation technique for making management decisions in dairy farming, narrative, flow chart, and computer code description, 5864
SPAD (Satellite Position Prediction and Display) equipment for shipboard use, operation and performance, 2491
statistical association methods for mechanized documentation, symposium, 7913
stored program computer for small scientific spacecraft, 17917
system monitors discrete computer inputs, 15119
teaching a machine to think, USSR study, 4604
teaching electronic machines to understand language, USSR study, 900
techniques, all-Union scientific session devoted to radio day, 18538
techniques for calculating shape factors and channel volumes from potentiometric model for use in waterflood performance calculations, 12239
Ural-2, feeding physiological data, USSR study, 12165

Electronic computers—Continued
Ural-2, feeding with information obtained by means of V. M. Anan'yev's multi-input analyzer and recorded on one magnetic tape track, USSR study, 7623
urban passenger transportation schedules, modeling of process of compiling, USSR study, 2186
uses—
computing scientific technical problems, USSR studies, 9120
historical-technical analysis, USSR study, 7592
improve command post exercises, 6536
in planning, USSR, 16488
national economic planning, USSR study, 13472
should be expanded, USSR studies, 9182
USSR abstracts, 3673
USSR studies, 9130
X-11 variant of census method II seasonal adjustment program, 271
Electronic counters, delayed ripple, use in simplifying square root computation, 1219
Electronic cross sections, *see* Cross sections.
Electronic data processing systems:
automatic, guide for auditing, 12625
binary counter accumulates, time by complementary present, 4889
careers in automatic data processing, Veterans Administration, 18139
confrontation within banking (remarks), 10310
control lines maintenance, FAA handbook, 16256
economic purchase, etc., of automatic equipment by Federal departments—
law, 408
report, 563
equipment, East German study, 16483
equipment, Federal item identification guides for supply cataloging, supplements, 2939
for the man who wants a tough, hard job, data processing management training program, in IRS, 2118
Fortran programs—
flowchart is automatically produced, 6388
space-charge-flow, 9522
two-dimensional discrete angular segmentation transport, 15178
Fortran solution of decompression equations, 13666
Goddard Space Flight Center, economy of operations, 4144
Government, management and organization, procurement, etc., hearings, 13035
inventory of equipment in Federal Government, 1689, 12689
machine language and data processing developments, USSR study, 2168
machine methods in research into history of science and engineering, USSR study, 7595
management of automatic data processing in Federal Government, training programs, ADP Management Training Center, 1750
management of data processing equipment, Air Force manual, 8187
PARM, program analysis for resource management, introduction to post-attack recovery planning system, 659
planning and utilization of automatic data processing equipment, Ames Research Center, Moffett Field, Calif., NASA, GAO report, 10621
polar video gating of radar and IFF displays using cartesian control, 12441
single particle energy levels and wave functions in nuclear structure calculations, Fortran program, 16720
theory, 2440
Electronic data processing systems—Con.
transistorized building blocks for data instrumentation, 13863
two-coordinate, sampled-data tracking system, human vs filter as data extrapolator, 6543
USSR Exhibition of National Economic Achievements, information and data-processing equipment exhibited, 2272
USSR industry, 10790
weather radar, atmospheric turbulence and sferics, 1536
Electronic equipment:
communications, reliability and economy, USSR study, 12125
components and sub-assemblies, SNAP 8 radiation effects test program, 7747
components, Federal item identification guides for supply cataloging, supplements, 2936
cooling and coolants, bibliography, 3989
France, market information, 10028
insulator-holder protects transistors in dense electronic assemblies, 4882
maintenance, Coast Guard manual, amendments, 5537, 10008, 11506
miniature parts and integrated circuit devices, handbook, supp., 12500
reliability physics notebook, 8201
reliability stress and failure rate data, military standardization handbook, 10394
salvaging flooded equipment, surface chemical methods of displacing water and/or oils, 6548
selected electronic and associated products, current industrial reports, 8355
Electronic integrators, *see* Integrators.
Electronic machining and treatment of materials, USSR, 9184
Electronic measuring instruments, blood pressure measuring system gives accurate graphic output, 2384
Electronic modules, rugged microelectronic module package supports circuitry on heat sink, 11037
Electronic phase-locked-loop speed control system is stable, 12295
Electronic Systems Division:
technical documentary report, 3784
technical reports, 83, 3785–86, 5317, 6801, 8193–94, 9861, 16949
Electronic technicians:
class C, TACAN systems course, trainee's guide, 15249
examination announcement, amdts., 393, 8391
Electronics:
basic, fire control technician training, trainee's guide, 5061
Communist Chinese abstracts, 2772
East European abstracts, 2869
electronic trainer, use by laboratory for sports cybernetics, USSR study, 6164
failure free systems, final report, 2364
fire control technician training instructor's guide, 17974
fundamentals, transparencies, cross reference index, 15244
industry, implications of reduced defense demand, 110
information tests for enlisted classification, validation, 5377
Institute in Bulgarian Academy of Sciences, achievements, 13526
key to progress, USSR, 10724
maintenance, Coast Guard manual, amendments, 5537, 10008, 11506
manufacturing occupations, employment outlook, 9300
method of measuring hematocrits of fish, evaluation, 14674
microelectronics in space research, technology survey, 1198
microelectronics, interconnection problem, survey/study, 7736

Electronics—Continued
organizational mechanic/repairman course, 5363
PACAF basic bibliographies, supp., 5320
publications, price list, 16788
space electronic systems, multipactor breakdown, 12264
tool forms right angles in component leads, 13781
treatment of materials, USSR studies, 9145, 14918
USSR abstracts, 3674
USSR all-Union scientific session devoted to radio day, 13574, 14831, 14838
see also Bioelectronics—Quantum electronics.
Electrons:
angular distributions ejected from helium by protons, 16695
attachment to atomic fluorine in thermally ionized air, 12274
backscattered, measurement in electron probe microanalyzer, 1155
collection by spherical satellite in earth's magnetic field, 17877
density in ionosphere, Alouette I observations, 10980, 13726, 17890
designs of electron melting units, USSR study, 981
drift in plasma, 4991
emission properties of duplex refractory metal thermionic emitters, 15044
flow through rarefied gas between plane parallel electrodes, 13825
high energy, effects on silicon, 6347
high-speed, directed beam through mercury vapors in heated-cathode discharge tube, investigation, 4990
inner zone radiation belt, trapped radiation model environment, 4835
interactions with matter, 2359
irradiation of polyethylene terephthalate insulated ribbon wire, transient effects, shunt capacitance effects on, 7849
low energy, at balloon altitudes, intensities and charge composition, 2413
magnetic breakdown in finite 1-dimensional model with infinite potential relaxed, 7823
paramagnetic resonance, spectroscopy for studying surface defects and adsorbed molecules, 7871
radiation effects on unijunction transistors, 13714
scattering in aluminum, 2359
thermal field emission—
energy transport, 11070
for terminated image potential, 6354
Electrophoresis, *see* Immunoelectrophoresis.
Electrophysiology, *see* Physiology.
Electroplaters, employment outlook, 9237
Electroplating:
eliminates gas leakage in brazed areas, 16637
equipment, market in United Kingdom, 177
hollow spherical rotors fabricated, 15097
selective, of etched circuits, 1238
Electropneumatic transducer automatically limits motor current, 7806
Electrorefining, *see* Smelting.
Electroshock therapy electroconvulsive therapy, 1939–63, studies, 11196
Electroslag, remelting, USSR study, 13584
Electroslag welding, *see* Welding.
Electrosorption, desalination by electrosorption and desorption, 16373
Electrostatics:
high field strength, measured with vibrating diaphragm, 1227
measurement experiment, Scout vehicle 131–R (S.E.V., systems evaluation vehicle), 10946
Electrovacuum materials, assortment and use, USSR study, 16476
Electrowinning, *see* Electrolysis.
Electrowon molybdenum, *see* Molybdenum.
Elementary education:
arts and humanities instruction, financial assistance, 8843
book selection aids, 8836
conservation in elementary schools, outline, 14147
disadvantaged children—
administration of elementary school programs, 16225
bibliography, 16229
educating in middle grades, 4298
disaster areas, financial assistance, law, 415
educationally deprived children—
basic facts for school administrators, programs under 1965 act, 1975
better schooling, programs under 1965 act, 640
special programs, under 1965 school act, guidelines, 4304
elementary and preschool child development act—
hearings, 5689
report, 5676
elementary and secondary education act—
aid to strengthen educational quality, etc., ESEA, 5881
amendments of 1966—
hearings, 13028, 13226, 14416, 17373
reports, 12989, 15924, 17342, 17499
education of handicapped children and youth, possibilities and plans, conference report, 10421
first work of these times, description and analysis, 643
instructions for title 1, 1967 application forms, 14554
PACE, projects to advance creativity in education, supplementary centers and services, etc., 639, 649, 5879, 10429
programs for disadvantaged under title 1, 13268
progress under title 4, back to drawing boards, 13267
elementary and secondary schools, operation by Federal agencies, investigation and study, 17298
enrollment, teachers, schoolhousing, and expenditures, fall 1965, statistics, 7307
entitlement by impacted area school districts under P.L. 874 and P.L. 89–10, 11826
grant formulas under 1965 school act, hearings, 4128
guidance services in schools, national survey, 13272
impact aid to strengthen and improve programs of assistance, hearings, 14417
in public schools, 1960–61 survey, 7325
inheritance comes to P.S. 83, 10425
learning about space careers, 10972
life sciences in space age setting, 12263
planetarium, teaching resource, 17887
school construction grants, hearings, 5690
school library resources, textbooks and other instructional materials, programs under 1965 act, 641
space handbook for teachers, Lincoln plan, 12276
strengthening State departments of education, programs under 1965 act, 642
teaching poison prevention in primary grades, guide, 6578
Elements, fluid logic, for binary counter uses, 2396
Elements (chemical), *see* Chemical elements.
Elevations, *see* Altitude.
Elevator constructors, *see* Mechanics (persons).
Elevators, *see* Grain elevators.
Elger, Gerald W., producing hafnium-enriched feed solutions from zircon, 12256
Elias, Michael F., *see* Daniel, Michel F.

Elias, Z. M.:
dual formulation of thin shell theory, 15067
spherical shell with non-axisymmetric boundary, 16595
Elk:
habitat management problems in northern forests, 8973
Roosevelt, bibliography, 10616
use of openings in spruce-fir forests of Arizona, 13368
use of ponderosa pine forest in Arizona, 13365
Elk River, watershed area, economic and resource development, summary, 2606
Elko County, Nev., geochemical reconnaissance, 16355
Elliott, Carl V., relief, 12884
Ellipsoids:
bluntness effects on subsonic drag of elliptical forebody, 9519
equatorial ellipticity of earth from Syncom II drift, 12336–337
transonic aerodynamic characteristics, 6421
Elliptic functions, *see* Mathematics.
Elliptic motion, expansions in, 7952
Ellipticity, series of related bodies with cross-sectional ellipticity, supersonic aerodynamic characteristics, 15157
Ellis Island, commemorative medals, report, 17254
Elm, Siberian, height growth characteristics in central Great Plains windbreaks, 8966
Elm bark beetles, *see* Beetles.
Elm spanworms, *see* Spanworms.
El Paso, Tex.:
Chamizal boundary, border highway—
hearing, 13057
report, 14390
land conveyance, report, 13176
El Paso County Water Improvement District No. 1:
approving contract—
law, 15725
reports, 12940, 17465
El Salvador:
background notes, 8041
foreign trade regulations, 10024
mineral industry, minerals yearbook chapter, 7688
Elson, Jo Ann, abstracts of personnel research reports, 14183
Elva L. (ship):
documentation with full coastwise, privileges, 17074, 17178
Elyria, Ohio, commodity transportation survey, production area series, 8344
EM series, 7329, 11892, 17632–633
Embankments:
cohesive soil, construction control, rapid method, 8009
pore pressures during construction, 10446
Embassies, *see* Foreign Service.
Emblems, Navy, reproduction standards, 1386
Embrittlement, *see* Fracture of metals.
Embry, Robert S., volume tables and equations for young-growth western hemlock and sitka spruce in southeast Alaska, 8960
Embryology, human, USSR study, 10726
Embryos, chick, analysis of effect of replacing nitrogen by helium in air, 978
Emergencies, *see* Disasters.
Emergency boards:
reports—
American Airlines, Inc., 17628
Eastern Air Lines, Inc., National Airlines, Inc., Northwest Airlines, Inc., Trans World Airlines, Inc., and United Air Lines, Inc., 13284
Emergency mass feeding:
basic course, instructors guide, 15624
emergency welfare services manual, 17023
handbook, 17028
Emergency Planning Office:
appropriations, 1967, hearings, 8651, 13193
deputy director, nomination of Myron R. Blee, hearing, 11790
director, nomination of Farris Bryant, hearings, 7204
emergency preparedness programs, review, hearing, 453
press releases, 3358
Emery County, Utah, Temple Mountain district, geology and uranium deposits, 9007
Emf, *see* Electromotive force.
Emigrant Gap, Calif., railroad accident, 2137
Emigrés, *see* Immigration and emigration.
Eminent domain, equitable acquisition practices, fair compensation, relocation assistance, report, 13155
Emission, atmospheric, from coal combustion, inventory guide, 13961
see also Electrons—Thermionic emission.
Emissivity, *see* Thermal radiation.
EMIT (electromagnitnyy izmeritel 'techeniy), *see* Electromagnetic current meter.
Emittance:
coatings between 300° and 575°, 7889
spectral, of aluminum oxide and zinc oxide on opaque substrates, 1277
Emphysema, general information, 12471
Empirical method for determining static distributed aerodynamic loads on axisymmetric multistage launch vehicles, 7833
Employee benefit plans:
code of Federal regulations, 10490
experience, 6611
Federal salaries and fringe benefits, adjust rates of basic compensation, etc.—
hearings, 7161, 10365
law, 12829
reports, 8596, 10307
health plans, adjustments to medicare, 11230
welfare and pension plans disclosure act, regulations and interpretative bulletins, 14963
Employee pensions, *see* Pensions.
Employee training:
employer encouragement for on-the-job training, hearings, 16192
planning and conducting on-the-job training guide, 15482
supervisors responsibility for work improvement, 5147
training needs for health facilities, 7328
vocational education, training for yesterday's jobs? 13589
Employees:
air transportation industry, 1947–64 indexes of output, 14969
earnings and hours—
in nonmetropolitan areas of South and North Central regions, 17816
in selected small metropolitan areas of South, 16539
retail trade, June 1965—
apparel and accessory stores, 13614
automotive dealers and gasoline service stations, 13613
food stores, 13612
summary release, 14984
earnings, retail general merchandise stores, 12219
nursing and personal care homes, 1964 statistics, 15310
trends in health services, 1437
see also Farm labor—Government officials and employees—Railroad employees—Stores—*also* names of departments, etc., where employed.

Employees' Compensation Appeals Board:
decisions—
index digest, v. 13–15, 11885
July 1, 1964–June 30, 1965, 11886
Employers:
agricultural, social security tax guide, 2115
call your community manpower service center when you need qualified workers, labor market information, etc., 4330
contributions into joint industry promotional funds, etc., hearing, 17590
encouragement for on-the-job training, hearings, 16192
expenditures and practices for supplementary compensation for nonproduction workers, 4731
guide to on-the-job training under manpower development and training act, 1631
household workers, social security tax guide, 855
looking for scientists, sociologists, nurses, etc., whatever your professional manpower needs, fill through Professional Placement Network, 11887
records kept under fair labor standards act, general requirements, 9763
tax guide, 854
Virgin Islands, Guam, and American Samoa, Federal social security tax guide, 2116
Employers' liability and workmen's compensation:
Federal employees' compensation act—
benefits, improve—
hearings, 511, 10360
law, 11586
reports, 5674, 11779
work injuries sustained during 1964, 661
ILO convention concerning employment injury benefits, text, etc., 17159
longshoremen's and harbor workers' compensation act, as extended, text, 13285
publications, price list, 7986
radiation injury, legislation, Federal-State cooperation in improvement, 1687
State laws, brief summary, 17804
workmen's compensation and radiation injury, studies, 1687, 6873
workmen's compensation enactments, 4712
workmen's compensation payments and costs, 2565
Employment:
act of 1946—
amend, hearing, 17380
text, 5594
20 years of experience, 7231
20th anniversary, symposium, hearing, 8485
print additional copies, reports, 10213, 10292
supplement, 14376
area redevelopment, new and permanent employment, creating, 3806
area trends in employment and unemployment, 2687
census of business, 1963, employment size—
retail trade, 193
selected services, 200
wholesale trade, 207
city, 5497
coal mines, monthly report, 2753
community program, developments, 14568
current reporting in developing countries, how to establish, 12209
EDA program for building communities with jobs, 1964, 7272
educators overseas, opportunities, 4251
effects of construction expenditures, 13621
employment and earnings (periodical), 2681
employment and earnings, and monthly report on labor force (periodical), 4734
Employment—Continued
employment service adviser, examination announcement, 6962, 10001
employment situation, monthly release, 2886
engineers, scientists, and technicians, current market, 664–665, 14567
equal opportunity (address), 13587
expanding employment in pluralistic economy, 17803
farm labor developments, 2911
employment and wage supplement, 2912
farmers, self-employed, are you getting your social security credit? 1467
Federal—
executive branch operations under dual compensation act, report, 7158
Federal employment statistics bulletin, 2928
futures in Federal Government, 6973
jobs overseas, 1760
mediator positions, 10478
monthly report, 3217
programs providing jobs, 7640
publication providing useful information, 2520
summer jobs, examination announcement, 3982
summer jobs in '66, office and science assistant positions, 311
thinking about your first job? remember Uncle Sam, 17044
veteran preference, handbook for veteran counselors, 17045
work injuries sustained during 1964, 661
working for U.S.A., 9997
Forest Service, nonprofessional jobs, 8149
former mental patients, 7 programs that work, 4711
fuel industries, minerals yearbook chapter, 1109
Government employment series, 5497, 6934
Government services, urgent need for talent, 16540
growth patterns by county, 1940–50 and 1950–60—
Far West, 14247
Great Lakes, 8322
Mideast, 5437
New England, 5436
Plains region, 12693
Rocky Mountain, 12696
Southeast, 12694
Southwest, 12695
hiring Neighborhood Youth Corps graduates, information for employers, 2281
impact of technological change, adjustments, etc., 13872
it's your future, right job skills, right job advice, 4329
job placement of specialists, shortcomings in USSR plan, 16480
job vacancy statistics—
hearings, 12842
report, 15779
job vacancy surveys, 8855
know your rights under law, 10841
major programs providing Federal funds for employment & training, 9944
mineral industries, minerals yearbook chapter, 2318
minority group in Federal government, 1965, study, 310
Naval Weapons Bureau, opportunities, 2883
Neighborhood Youth Corps, general information, 2284
old-age, survivors, and disability insurance covered workers, statistics, 1957, 1464
outlook—
accountants, 10859
advertising, marketing research and public relations workers, 9207

239-221—67—No. 863——17

Employment—Continued
outlook—continued
agricultural occupations, 9291
air conditioning and refrigeration mechanics, 10860
aircraft, missile and spacecraft manufacturing occupations, 9292
apparel industry, 9293
appliance servicemen, 9208
architects, 9209
asbestos and insulating workers, 9261
atomic energy field, 9294
automatic bowling machine mechanics, 9215
automotive service and sales, 9210
baking industry, 9296
banking occupations, 9297
barbers, cosmetologists, 9211
biological scientists, 9212
boilermaking occupations, 9213
bookkeeping workers, office machine operators, 9214
bricklayers, stonemasons, tile setters, etc., 9216
business machine servicemen, 9217
carpenters, painters, paperhangers, glaziers, 9218
cashiers, 9220
cement masons, plasterers, lathers, 9219
chemical industry, 9298
chiropractors, 9221
civil aviation, 9295
clergy, Protestant clergymen, Rabbis, Roman Catholic priests, 9222
commercial artists, industrial designers, interior designers, and decorators, 9223
conservation occupations, 9224
construction electricians, 9234
construction laborers, 9245
counseling and placement, 9225
dental hygienists, 9226
dental laboratory technicians, 9227
dentists, 9228
diesel mechanics, 9229
dietitians, 9230
dispensing opticians and optical laboratory mechanics, 9231
driving occupations, 9232
earth scientists, geologists, geophysicists, meteorologists, oceanographers, 9233
electric light and power occupations, 9299
electronic computer operating personnel, programers, 9235
electronic manufacturing occupations, 9300
engineers, aerospace, agricultural, ceramic, chemical, civil, electrical, industrial, mechanical, metallurgical, mining, 9236
factory operatives, assemblers, electroplaters, inspectors, power truck operators, production painters, 9237
FBI agents, 9238
firefighters, policemen, policewomen, 9239
floor covering installers, 9240
forge shop occupations, blacksmiths, 9241
foundry occupations, 9301
Government occupations, 9302
home economists, 9242
hospital administrators, 9244
hotel occupations, 9303
insurance occupations, 9304
iron and steel industry, 9305
landscape architects, 9246
lawyers, 9247
librarians, 9248
machining occupations, 9249
maintenance electricians, industrial machinery repairmen, millwrights, 9250
Employment—Continued
outlook—continued
mathematics and related fields, mathematicians, statisticians, actuaries, 9251
medical record librarians, 9252
medical technologists, 9253
medical X-ray technicians, 10861
motor vehicle and equipment manufacturing, 9306
newspaper reporters, 9254
nurses, registered professional and licensed practical, and hospital attendants, 9270
occupational therapists, physical therapists, 9255
operating engineers (construction machinery operator), 9256
optometrists, 10862
osteopathic physicians, 10863
performing arts, actors, dancers, musicians, singers, 9257
personnel workers, 9258
petroleum and natural gas production and processing occupations, 9307
pharmacists, 9259
photographers, 9260
physical scientists, chemists, biochemists, physicists, astronomers, 9263
physicians, 9264
plumbers and pipefitters, 9261
podiatrists, 9265
post office, 9309
printing occupations, 9262
private household workers, 9243
psychologists, 9266
pulp, paper, and allied products industry, 9308
purchasing agents, industrial traffic managers, 9267
radio and television broadcasting occupations, 9310
railroad occupations, 9313
real estate salesmen and brokers, 10864
receptionists, telephone operators, 9268
recreation workers, 9269
restaurant occupations, 9311
sanitarians, 9271
securities salesmen, 9273
sheet-metal workers, roofers, 9275
shipping and receiving clerks, 9274
social scientists, anthropologists, economists, geographers, historians, political scientists, sociologists, 13594
social workers, 9276
speech pathologists and audiologists, 9277
stationary engineers and firemen, 9278
stenographers, secretaries, typists, 9279
structural, ornamental, and reinforcing iron workers, elevator constructors, 9280
surveyors, 9281
teachers, 9282
technical writers, 9283
technicians, engineering and science technicians, draftsmen, 9284
telephone occupations, 9312
television and radio technicians, 9285
urban planners, 9286
vending machine mechanics, 9287
veterinarians, 9288
watch repairmen, jewelers and jewelry repairmen, instrument repairmen, 9289
welders, oxygen and arc cutters, 9290
wholesale trade, manufacturers', retail stores, 9272
Pacific Northwest forest industries, 3420
policy in U.S. history, 7231
policy, International Labor Organization convention, 13078, 17167
Post Office Dept. use of contractor-furnished personnel, GAO report, 4507

Employment—Continued
pre-employment training, safety guide, 17625
private household, expanding opportunity, 4326
problems of older workers, hearings, 13029
professional mental health personnel employed in States, 11105
programs of Government and private organizations (address), 10014
public, 6934
public works acceleration program, local employment created, GAO report, 6011
right job, guide for returning servicemen, 12553
rural youth job needs, community action program, 16221
seasonal, range, forestry, surveying, engineering, fire control, information, 6274
security amendments of 1965, 533, 4217
security job market research methods, area skill survey, handbook, 4323
selected readings in employment and manpower, 4230, 7231
self employed people, reporting their income, social security information, 9654
self-employed retirement deduction for taxable year 1964, Treasury Dept. report, 14445
space jobs, 12275
State and local government employment and payrolls, 3534
State and local Government, should be based on principles of democracy (remarks), 9196
statistics, 1909–65, United States, 6256
statistics, 1939–65, States and areas, 13593
student workers under fair labor standards act, 14073
students in retail or service establishments, regulations under fair labor standards act, 14072
technological change and employment, 7676, 13872
tomorrow's job, 9314
Western States, 1947–64 postwar trends, 9338
workers covered by State unemployment insurance laws, 2892
youth, industry practices and policies, 1540
youth, profile, 17408
see also, Discrimination in employment—Government officials and employees—Handicapped—Manpower—Occupations Women.
Employment agencies, *see* Employment offices.
Employment offices:
community manpower service center, nearest local office of your State employment service, facilities, 4330
private agencies, State laws regulating, summary, 7653, 12206
training program unit 4 (revised)—
pt. A, instructor's guide, 666
pt. B, trainees workbook, 666
Wisconsin, employment service activities, savings through consolidation, GAO report, 8990
Employment security activities, *see* Unemployment insurance.
Employment Security Bureau:
BES series, 4323–24, 17629
employment service activities in Wisconsin, savings through consolidation, GAO report, 8990
general aptitude test battery, manual, norms, occupational aptitude pattern structure, 16246
programs (address), 16244
Employment Service:
act of 1966, hearings, 10364
employment service review, 2884
supplement, 2885
Employment Service—Continued
Federal-State system, improve and expand report, 13129
general aptitude test battery, norms, specific occupations, manual, 16247
how it helps the handicapped, seven services, 16248
local occupational information, reports by employment offices, list, 13286
new directions (address), 13289
program research on effectiveness of USES tests, 1989
statistics (periodical), 2885
Employment taxes:
increase unemployment tax rate—
amendments recommended by Labor Department, 16181
comparison of House and Senate bills, 13206
data relating to House bill, 13207
hearings, 13209
reports, 11633, 13182, 15842
IRS looseleaf regulations system, 2121, 3168, 6070, 7519, 9046, 10680, 14777
self-employment tax payment and collection practices, IRS, GAO review, 6025
self-employment tax, quarterly payments—
hearings, 4151, 5804
law, 7032
summary, 7170
legislative history, 17399
reports, 5659, 5665, 7086
Senate amendments, summary, 8687
summary, 7211
Enamel, porcelain, weather resistance, 7-year exposure test, 12380
see also Teeth.
Encephalitis:
tick borne, by birds, USSR study, 9118
virus, tick-borne, experimental infection in sheep, USSR study, 1001
Encoders:
pneumatic binary, replaces multiple solenoid system, 15104
shaft, presents digital output, 17902
variable word-length, reduces TV bandwidth requirements, 1221
Encyclopedias, entry of Islam in great Soviet encyclopedia, 10791
Endocarditis, *see* Heart diseases.
Endocrinology:
regeneration and cell division, research, problems, USSR study, 7585
Soviet research on endocrine mechanisms, 7571
Endoparasites, *see* Parasites.
Endotoxins:
effect of environmental temperature on lethality and its effect on body temperature of mice, 5314
metabolic aspects of tolerance and effect of low temperature, 5312
tryptophan pyrrolase inhibition during poisoning, 6797
Endowments, college and university, status and management, 7300
Energy, *see* Atomic energy—Force and energy—Radiant energy.
Energy absorption:
fragmenting-tube process, 6442
tube fragmentation, theoretical analysis, 9416
Energy metabolism, *see* Metabolism.
Energy spectrum, *see* Spectra.
Enforcement of law, *see* Law enforcement.
Eng Wan Sau, *see* Ng, Sheung Wan.
Engle, Arnold, rheumatoid arthritis in adults, 15308
Engel, George T., mercury, 16562
Engelmann spruce, *see* Spruce.
Engineering:
architectural-engineering documents for health research facilities construction grants, guidelines, 15267

Engineering—Continued
Coast and Geodetic Survey, responsibilities, 11502
cold regions science and engineering, 1639
Communist Chinese abstracts, 2773
defense communications system, installations standards manual, 7251
degrees (1962–63) and enrollments (fall 1963), 1976
design handbook series, 8229–30, 9883
East European abstracts, 2870
education (address), 4029
education, modern, USSR studies, 2175
engineering monographs, 1451, 2548, 8009, 9640, 12494
enrollments and degrees, advance report, 10418
faculties, general, seminars for teachers, Kiev, Ukranian SSR, 6138
highway engineering productivity conference proceedings, 6591, 15314
highway, syllabus for short unit, 11206
history, machine methods of data processing in research, USSR study, 7595
journal of research, National Bureau of Standards, 3102, 16713
materials, Soviet conferences, 16428
mechanization, USSR study, 983
PACAF basic bibliographies, supp., 5319
Peace Corps, general information, 5081
Psychology Branch, bibliography, 1349
public health engineering abstracts, 3426
publications, price list, 13953
quarterly engineering seismology bulletin, 3439
seasonal employment, information, 6274
site engineering, housing design notes, 6590
snow, 1639
Syncom report, 7896
technical aids, examination announcement, 11501, 14297
technicians, examination announcement, amendment, 12750
USSR abstracts, 3675
wood-plastic composites, engineering study for manufacturing, 15534
work performance standards, repair and utilities, Army pamphlet, 12655
see also Agricultural engineering—Environmental engineering—Hydraulic engineering — Marine engineering — Mining engineering—Petroleum engineering—Radio engineering—Sanitary engineering—Value engineering.
Engineering and design manual, 7329
Engineering equipment:
Communist Chinese abstracts, 2773
East European abstracts, 2870
USSR abstracts, 3675
Engineering psychology, *see* Human engineering.
Engineering technician, examination announcement, amdt., 293
Engineers:
career opportunities—
civilian, Air Force Dept., 15485
college students in Public Roads Bureau highway engineering training program, 5129
contemporary culture, questions for creative engineer (address), 5548
current employment market, 664–665, 14567
employment in industrial research, etc., 7951, 16740
engineer and paperwork, USSR study, 940
engineering manpower in Communist China, 1949–63, 2478
examination announcements, 8390, 14302
field data, Army field manual, 8251
mental activity, use of cybernetics to increase effectiveness, USSR studies, 9106
pay, Feb.-Mar. 1965 survey, 2303
Engineers—Continued
role, speculative or contributive? (address), 11512
trainee, examination announcements, 298, 1752
USSR construction, K. E. Goryaynov, biography, 10793
USSR, training cadres in system of Committee of Standards, 13477
see also Aerospace engineers—Agricultural engineers—Ceramic engineers—Chemical engineers—Civil engineers—Electric engineers—Flight engineers—Industrial engineers—Mechanical engineers— Metallurgical engineers—Mining engineers—Operating engineers—Sanitary engineers—Systems engineers.
Engineers Corps, Army:
appropriations, 1966, amendments, 17403
appropriations, 1967, decrease, 12856
career opportunities, 16252
civil works program, report by Civil Works Study Board, 11830
correspondence, regulations, 10437
flood control, rivers and harbors, new projects and monetary authorizations—
hearings, 17597
law, 400
reports, 17276, 17533
print additional copies, reports, 10197, 17470
manual, 7329, 11892, 17632–633
policies and procedures followed in determining size of new 2d lock at Sault Ste. Marie, Mich., GAO review, 17712
press releases, 3359
publications available for purchase, 11895
regulations, ER series, 10437
relocation of railroad facilities for Walter F. George Lock and Dam, Fort Gaines Ga., GAO report, 6024
report 1965, civil work activities—
departmental edition, 11889, 14570
document edition, 11599, 14379
savings by reducing overtime on revetment construction and maintenance on lower Mississippi River, GAO report, 8986
scientific information activities, 11137
Engineer's digest (periodical), 2887
Engines:
accessories, Federal item identification guides for supply cataloging, supplements, 2932
census of manufactures, 1963, industry statistics, 8335
engines and components, Federal item identification guides for supply cataloging, supplements, 2932
gasoline-powered, emission pollutants, control—
amendments, description, 2107
law, 396
internal combustion engine, new type, USSR study, 7562
motor engine building, wasteful diversity, USSR study, 965
transrotor, description and drawings, 17941
tuneup, fundamentals, training motor vehicles mechanics, instructor's guide, 12453
see also Diesel engines—Turbines.
Engines (aircraft):
aircraft engine type certification handbook, 10543
airworthiness standards, Federal aviation regulations, change, 14599
current industrial reports, 2817, 12712
management in ground training programs, Air Force Dept., GAO follow-up review, 16343
modifications, for F–100 aircraft, management of selected time compliance technical orders, Air Force Dept., GAO report, 14725

Engines (aircraft)—Continued
recovery of needed parts from excess engines, Air Force Dept., GAO report, 10624
turbojet, tip rotor system, heavy lift, 1659–71
type certificate data sheets and specifications, 2667
see also Rockets.
England, *see* Great Britain.
Engle, Harry C., relief, 12804, 16008
Englert, Gerald W., high-energy ion beams used to accelerate hydrogen propellant, etc., 16702
Englerth, George H., framework of qualitative relationships in wood utilization, 10593
English Channel, lights and fog signals, list, changes, 2482, 7959, 12407, 16746
English language:
as a foreign language, NDEA institutes for advanced study, 5884–A
classify non-projective structures, to construct machine-grammer, USSR study, 16448
English and your career, 7672
national defense education act, institutes for advanced study, 5877, 5884A
naturalization candidates, Federal textbook on citizenship—
home study course for helper, 7502
home study course for student, 7503
oral, conversation classes and discussion groups, planning and conducting, 9754
reference materials on Eastern Europe education, 11870
teaching forum, facts and ideas for teacher of English as foreign language, 1526, 5199, 8107, 12550, 16892
undergraduate requirements for English major, curriculum patterns, 637
Engraver beetles, *see* Beetles.
Engravers, Italian coin engravers since 1800, 2465
Engraving and Printing Bureau, financial statements, 1964–65, GAO report, 11998
Enlisted men, *see* Army—Navy.
Enlisted personnel, *see* Army.
Enlistment, *see* Recruiting and enlistment.
Eniow, R. E., agricultural research, 2651
Enrollment, *see* Colleges and universities—Schools.
Ensminger, M. E., light horses, 34
ENTAC (ENgin-Teleguide Anti-Char), *see* Missiles.
Enterprise statistics, 1963, preliminary reports, 11475
Entertainment, *see* Amusements.
Enthalpy, stagnation, in Langley hotshot tunnel, experimental study, 7827
Entomologists, examination announcement, 14307
Entomology:
military, operational handbook, 11333
research, scientific careers, 1593
Entropy:
ferrous molybdate and ferrous tungstate, 10920
praseodymium oxides and terbium oxides, 12248
temperature diagram for parahydrogen triple-point region, 17943
zinc sulfides and solid solutions of zinc and iron sulfides, 2353
Entry into atmosphere, *see* Atmospheric entry.
Environment:
aviation and its flight environment (address), 5892
Cape Thompson region, Alaska, 11432
cold regions science and engineering, 8233–43
contamination from lead and other substances, hearings, 13228
control, planning (address), 9808
Environment—Continued
controlled, clean room and work station requirements, Federal standards, 16289
controlled radioiodine tests at National Reactor Testing Station, 1965 progress reports, 8284
cryogenic, properties of large 7079 aluminum alloy forgings in, 12271
electrical cabling withstands severe environmental conditions, 16642
environmental chambers, industrial plant equipment handbook, 8801
environmental data collection manual, 1990
environmental physiology of submarines and spacecraft, 6282
environmentally controlled reuseable containers for shipping and storing critical parts, 12300
hazardous, self-contained clothing system provides protection, 9492
health series—
air pollution, 6577, 13961
Arctic health, 5104
food protection, 2526, 13952, 15276
radiological health, 12465, 15277, 18003
references and abstracts, 12466
water supply and pollution control, 9624
helium-oxygen and other atmospheres for closed systems, 6283
hospital, better patient care through research, education, and consultations, 16801
industrial, evaluation and control, syllabus, laboratory manual, 16802
influence on growth and reproduction of cattle, 5268
lead contamination, symposium, 8002
man-made radioactivity, environmental studies, 11441
many faces of change (address), 9931
meteoroid, and its effects on materials and equipment, 4834
Mississippi River Delta, impact of pesticides, 15467
mobility environmental study one-pass program, 5347
natural regeneration in mixed conifer forest type of California, 8975
natural systems of U.S., conduct research program, hearing, 17583
radiation, external, 11424
radioiodine, controlled environmental tests, 15531
reduced-pressure, vibrational characteristics of sandwich panels, 15163
restoring quality, 1399
significance of large-scale patterned ground, Donnelly Dome area, Alaska, 1637
space environments—
handbook, Air Force, errata, 11376
portable lightweight cell provides controlled environment, 15100
simulators, manrating, aerospace medicine considerations, 15481
supersonic and hypersonic, high-temperature, oxidation of graphite, 12343
thermal and pressure environments in base of Saturn S–1C booster from Mach 0.1 to 3.5, wind-tunnel investigation, 16678
thermal environment in shelters, evaluation, 12467
transmission system isolates pressure transducer from severe environment, 6390
trapped radiation environment, models, 4835
vacuum, feed-through connector withstands high temperatures, 2379
variable-environment chamber, materials physically tested, 7786
zero-gravity—
flammability, 17932
use of aircraft to produce, 9517
Environment chambers, *see* Environment.

Environmental engineering selected publications, bibliography, 15272
Environmetal Pollution Panel, President's Science Advisory Committee, restoring quality of our environment, report, 1399
Environmental Science Services Administration:
Armed Forces members permitted to be assigned to—
law, 17149
reports, 17219, 17512
ESSA fact sheet, 11901
ESSA, new agency, general information, 13301
ESSA symposium on earthquake prediction, 14577
ESSA world, official employee publication, 14578
navigate safely, nautical charts and maps, list, 13300
press releases, 3360
Enz, Richard W., water supply outlook and Federal-State-private cooperative snow surveys for Arizona, 3687
Enzymes:
chemistry, USSR study, 970
microorganisms detected by enzyme-catalyzed reaction, 7774
saliva protease levels in relation to periodontal status in man, 11381
Eocene period, echinoids from Barbados, 18097
Ephemerides, ephemeris of sun, Polaris, etc., 1098, 17819
Epicenter, *see* Earthquakes.
Epidemics, infectious diseases, organization of measures to control within epidemic foci, USSR study, 9142
see also names of contagious diseases.
Epidemiology:
cancer and chronic diseases, study, 7931
leukosis enzootica bovis, 13993
New Jersey radium cases, follow-up, progress report, 9921
reports from world press, 2888
territorial, natural foci of diseases in relation to, USSR study, 9125
Epilepsy:
progress in research, summary, 1317
research, basic and clinical, review, 6489
Epinephrine, intravenous infusion, calorigenic response of rabbits, 9858
Epitaxial deposition, structures for radiation, resistant silicon solar cells, development, 10941
Epithelial cells, proliferation kinetics in hibernating dormice, 9859
Epoxy blanket protects milled part during explosive forming, 4866
Epoxy resins, *see* Resins.
Eppley, R. A., earthquake history of United States, stronger earthquakes of California and western Nevada, 6982
Epstein, Emanuel, salinity and pattern of selective ion transport, 7513
Equal employment opportunity, *see* Discrimination in employment.
Equal Employment Opportunity Commission:
appropriations, 1967—
hearings, 15955
reports, 15938, 17539
facts, 1996
legal interpretations issued or adopted by, digest, 14582
newsletter, 3271
press releases, 3361
responsibilities under title 7 of civil rights act of 1964, 17639
Equal Employment Opportunity, White House Conference on, *see* White House Conference on Equal Employment Opportunity.
Equal pay facts, 14095
Equal pay for equal work, *see* Women.
Equal rights, *see* Women.
Equality of educational opportunity, 13271, 14551–552
Equations:
computer system simplifies programming of mathematical equations, 13796
depth perception, method of simulating objects moving in depth, 9938
differential, ordinary, solution by means of Lie series, 16592
differential, perturbed periodic systems, study, stroboscopic method, 15074
discretization and differentiation of operators with application to Newton's method, 9442
energy transport by thermal field emission, 11070
explicit guidance, for multistage boost trajectories, 4936
formulation of problems of finding stress functions with aid of biharmonic potentials, 5000
Fortran solution of decompression equations, 13666
Helmholtz wave equation, nonseparable solutions examined for applications, 15523
high order perturbations in Krylov-Bogoliubov and Poincaré methods, 4907
Hurewicz theorem for weakly paracompact spaces, 13850
Lax's finite-difference method, application to nonequilibrium hypersonic flow problems, 7897
linear exchange model, USSR study, 16433
linear prediction on finite past of multivariate stationary process, 12373
linear, stress near curviliinear holes in sheils, 9547
linear theory of impulsive velocity corrections for space mission guidance, 7878
material balance, for partly depleted oil reservoirs repressured with gas, derivation and application, 9383
Newtonian aerodynamics for tangent ogive bodies of revolution, 7857
nonlinear membrane solutions for deep memberanes of revolution, 7835
nonlinear, regression analysis of periods defined by irregular observations, 9434
nonlinear, synthesis of nonlinear control laws, USSR study, 10796
nonlinear systems, controllability, 9428
numerical theory of satellites with highly inclined orbits, 2408
one-dimensional nonlinear model, use for determining combustion instability in solid propellant rocket motors, 9533
oxidation of molybdenum at temperatures at which its trioxide is volatile, 6472
plane strain analysis, extension, 17878
proposed, for calculation of forces on sphere accelerating in viscous fluid, verification, 15508
resonnance concept in systems of linear and nonlinear ordinary differential equations, 1282
runoff hydrograph, analysis, 8126
single-degree-of-freedom roll equation with time-dependent coefficients, solving, 4917
stress concentration about curvilinear holes in physically nonlinear elastic plates, 4999
transport, Fortran 2-dimensional discrete angular segmentation program, 15178
Equations of motion:
beams and rectangular plates with linearly varying in-plane and axial load, eigenvalue problem, 15056
behavior of floating ring dampers and dynamics of hypercritical shafts on flexible supports, 136
drift of inclined-orbit 24-hour satellite in earth gravity field through 4th order, 15136

Equations of motion—Continued
flight performance estimated with closed-form approximations, 4984
flutter of multiple-streamwise bay rectangular panels at low supersonic Mach number, analysis, 15050
frequency independent technique for extracting rigid-body motion from total motion of large flexible launch vehicle, 1272
orbital, integrating for use in space navigation, 16687
single turn magnetic coil behavior under dynamic load conditions, 4945
Equations of state:
matter, at supernuclear density, 1247
streak camera method for making measurements on rock under dynamic loading, 9386
Equatorial Guinea, *see* Ferdinando Po—Rio Muni.
Equilibrium:
chemical-equilibrium compositions of reacting-gas mixtures, computing by reduction to single iteration equation, 13816
measurements of nonequilibrium effects in air on wedge-flat-plate afterbody pressures, 2358
nonequilibrium channel flow of multicomponent gaseous mixture in near-equilibrium region, computing, 6460
radioactive, extent between radon and its short-lived daughter products in atmosphere, 16757
shape of array of long elastic structural members in circular orbit, 7820
Equipment development ED&T report, 4437
Equipment operators, 1 & C, Navy training course, 15246
Equipment specialists, examination announcements, 3973, 9990
Equipments, *see* Audio-visual equipment—Dental instruments and apparatus—Foundry supplies—Handling equipment—Medical instruments and apparatus—Medical supplies—Military supplies—Production equipment—Veterinary instruments and apparatus.
Equivalent noise bandwidth analysis from transfer functions, 1241
Era of educational and cultural relations, 12524
Erected dipole model in absorption of cesium on fluorinated molybdenum, 4961
Erenburg, Il'ya, interviewed on newspapermen, USSR study, 17782
Erényi, Gizella, relief, 15791
Ergasilus, *see* Copepods.
ERIC, *see* Educational Research Information Center.
Erickson, E. L., reinforced concrete bridge members, 18085
Erickson, Edwin E., U.S. Army area handbook for Peru, 1646
Erickson, Larry L.:
supersonic flutter of flat, etc., orthotropic panels, etc., 13819
supersonic flutter of isotropic sandwich panels, 7818
Erickson, R. L., gold geochemical anomaly in Cortez district, Nev., 14751
Erickson, Wayne D., method for computing chemical-equilibrium compositions of reacting-gas mixtures by reduction to single iteration equation, 13816
Erie, Pa., commodity transportation survey production area series, 8344
Erie County, N.Y., population, special census, 17011
Erie, Lake:
pollution, conference, 5103, 11963
pollution, control, etc., hearings, 15974, 17381
small craft, gale and whole gale warning facilities chart, 15423
Erie National Wildlife Refuge, mammals, list, 4421
Erikson, Leif, what is significance of his achievements? (remarks), 15542
Ernst, W. D., turbulent shear flow of dilute aqueous CMC solutions, 6343
EROS (earth resources observation satellite), *see* Satellites.
Erosion, and vortex flow in rocket nozzles, 4971
see also Soil erosion.
Error-correcting codes, deletion-, insertion-, and substitution-correcting binary codes, USSR study, 879
Errors:
analysis of binary rate multiplier, 2417
electric field, induced modes under Stix coil resulting from assumption of orthogonality of natural plasma modes, 6438
rate reduction of parity checked telemetry data by likelihood deletion strategy, 15181
zero defects guide, error-cause removal, etc., 4261
ERS, *see* Economic Research Service.
ERS-foreign series, 626–628, 4285, 5867, 7289–91, 8830–35, 10415, 13265, 14544–546, 17617
ERS series, 622–625, 1971, 4279–84, 5866, 7286–88, 8829, 10413–414, 11864–865, 13264, 14534–543
Ervin Reti, this is what I saw in Vietnam, into war, with a timetable, 883
Erythrocytes, *see* Blood.
Escalator clause, *see* Wages.
Escape (military):
from prisoner of war camps, field manual, 1640
Escherichia coli, potassium transport mutant, potasium movements, 8215
Eschman, Donald F., surficial geology of Athol quadrangle, Worcester and Franklin Counties, Mass., 9006
ESD, *see* Electronic Systems Division.
ESEA (elementary and secondary education act) *see* Elementary education—Secondary education.
Esfandiary, Mary S., coal research organizations, worldwide activities and publications, 7686
Eskew, Roderick K.:
engineering research at Eastern Utilization Research and Development Division, 25th anniversary review, 9788
nonfat milk solids, effect on storage properties of potato flakelets, 12583
Eskimos:
Anaktuvuk Pass, projected values of cesium-137 body burdens for summer 1965, based on findings in caribou muscle, 5115
children, picture story book, 13423
loans, guaranteed, etc., report, 17211
Espinosa, Mario V. Machado, *see* Machado Espinosa, Mario V.
Esquivel, Leonie, relief 8712
ESRO, *see* European Space Research Organization.
ESSA, *see* Environmental Science Services Administration.
ESSA 1 (meteorological satellite), *see* Satellites.
Essex, Burton L., Illinois timber resources, 7463
Estate tax, *see* Inheritance and transfer tax.
Estates, *see* Decedents' estates.
Esterase, acetylcholine, from erythrocytes of cattle, isolation, purification, etc., USSR study, 2241
Esters:
neopentyl polyol, analysis for acyl components of lubricants, 12425
phosphorus acid, action on α-chloroperfluoronitrosoalkanes, USSR study, 1011
see also Dipentaerythritol—Pentaerythritol—Trimethylolpropane.

Estes, Robert R., endoparasites of laboratory animals, 6809
Estuaries:
  Potomac River, water quality, 14749
  preserve, develop, etc., for sport, recreation, etc.—
    hearings, 14432
    report, 15939
Etched circuits, *see* Circuits.
Etching:
  electrolytic, provides effective bonding surface on stainless steel, 13736
  nonhazardous acid etches weld samples, 15108
  process mills PH 14–8 Mo alloy steel to precise tolerances, 10984
  Rembrandt's technique, 9566
  system for thick aluminum layers minimizes bridging and undercutting, 16623
  thermal, application to study of surface abrasion in ice crystals, 1636
Ethanol, *see* Alcohol.
Ethers, effect on parenterally induced Coxsackie B infection in mice, 78
  see also names of ethers.
Ethics:
  character guidance discussion, Army pamphlet, 5349
  ethics in automation (remarks), 11118
  Islamic, and its social significance, 10715
Ethiopia:
  agricultural commodities, agreement, 11266
  background notes, 8042
  foreign trade regulations, 8432
  health and sanitation, U.S. Naval Medical Research Unit, agreement, 8075
  mineral industry, minerals yearbook chapter 7692
Ethnography, *see* Ethnology.
Ethnology:
  Asian countries, ethnography, materials and research, USSR, 12099
  Man nationality of Vietnam, Soviet study, 17778
  Nghe An Province, Democratic Republic of Vietnam highland peoples, ethnography, 4654
  publication, price list, 16787
Ethridge, Robert A., relief of estate, 5726, 7028, 17175
Ethylene:
  beta radiation-induced telomerization of methanol, 8290
  evaluation as gas tracer in underground gas storages, 10929
Eugene, Oreg., principal electric facilities, map, 7377
Euler's theorem on rotations, *see* Rotation.
Eulogies, *see* Memorial services.
Eureka-Animas Forks area, Colo., manganese occurrences in San Juan Mountains, 16558
Eureka to Point Conception, Calif. coastal warning facilities chart, 11315
Europe:
  agricultural situation, midyear review, 14545
  capital markets, etc., investigation, authorization, report, 17297
  Eastern—
    agricultural situation, 7290
    agriculture, forestry, and food industries, translations, 3601
    Central Laboratory for Ventilation and Heating Industry, regulations, 7545
    Communist Party and coalition governments, study, 8783
    economic organization and management, translations, 3606
    education, English-language bibliography, 11870
    foreign trade, translations, 3602
    heavy industry, translations, 3603
    legal journals, abstracts, 2636
    materials industries, translations, 3604
Europe—Continued
  Eastern—Continued
    meteorological studies in Soviet bloc, 2189
    meteorology, current developments, translation, 13463
    military information, translations, 3197
    political translations, 3328
    science and Communist society, USSR study, 14929
    scientific abstracts, 2865–72
    service industries, translations, 3605
    shipping restrictions on grain sales, hearings, 575
    social science research studies, current list, 2576, 11247
    sociological translations, 3520
    unified scientific research program, 16431
    United States trade, 1963–65, Communist areas, 14327
    United States trade relations, special committee, report to the President, 9718
  Europe and Kennedy round (remarks), 8035
  Europe today, study mission report, 10342
  European and British Commonwealth series, 1489
  foreign relations of U.S., 1944—
    departmental edition, 11254
    document edition, 10096
  health information for travel in, 11183
  labor digests, 12218
  labor organizations, directory, 4581
  manpower policy, seminars—
    reports, 4230
    study papers, 4230
  market indicators, 4010
  mineral industry review, minerals year book chapter, 13690
  modern languages, classification, Library of Congress, 6276
  northern community mental health services, 5025
  postal services of U.S. Armed Forces—
    hearing, 4143
    report, 5638
  Russia's Europe, rebellion, fact and fiction, 585
  Socialist countries—
    foreign trade development during years of people's authority, 10808
    national guiding organs of scientific life, Hungarian study, 10820
    scientific conferences and events, 14860
  tide tables, 12765
  United States policy toward Europe, hearings, 16186
  United States space industry trade mission on European aerospace industry, report, 4576
  weather records, 1951–60, 14581
  west coast, lights and fog signals, list, changes, 5056, 7958, 13897
  Western—
    agricultural situation, 1965 review and 1966 outlook, 8833
    Defense Dept. civilian manpower policies, investigation, authorization, report, 17301
    interest rates, 16280
    market profiles, 12782
    retraining and labor market adjustment, 1080
    social science research studies, current list, 11248
    United States, international relations, etc., 1489
European alder, *see* Alder.
European earwigs, control around home, 6746
European Economic Community:
  agricultural guidance and guarantee fund, 11864

European Economic Community—Continued
common market and U.S. tobacco imports, study, 5680
meat import prospects, 8830
quality wheat, trade agreement, 1500
European Nuclear Research Center Switzerland, International, activities, 4602
European pine sawfly, *see* Flies.
European pine shoot moths, description, control, etc., 7453
European Space Research Organization:
designate as international organization for purposes of immunities act—
law, 5579
report, 4168
European War, 1914–18, veterans, *see* Veterans.
Eutectics, barium fluoride-calcium fluoride impregnated in porous nickel and nickel-chromium, self lubricating, 12357
Evacuation:
dependents of members of uniformed services from danger area, authorize special allowances—
law, 15775
reports, 12965, 17492
Evaluating growth performance of young stands, 16324
Evaluation of differential classification tests for ACB, 1673
Evaluation of one type of foldable tube, 2404
Evaluation of Vocational Potential Committee, Institute on Rehabilitation Services, report, 5216
Evans, James C., commercialization studies on wood-plastic combinations process, 11429
Evans, Sheldon, mechanism of electrode demineralization, 6067
Evaporated milk, *see* Milk.
Evaporation:
oxidation of molybdenum at temperatures at which its trioxide is volatile, 6472
pan and lake, maps, 5897
reduction-volatilization processes for recovery of manganese from ores, 6324
studies (series), 16359
study in humid region, Lake Michie, N.C., 16359
tantalum-hafnium-carbon system, computational methods for calculation of rates, 9429
Evaporators, sea water conversion, optimum brine heater outlet temperature, 12053
Evapotranspiration, studies (series), 10643
Evasion and escape, 1640
Evensen, David A., nonlinear flexural vibrations of thin circular rings, 2438
Evenson, R. E., irrigation water, etc., Lompoc subarea of Santa Ynez River basin, 4529
Everett, Wash., area wage survey, 2300
Every, Darlyne M. C. F., relief, 1898
Evidence:
admissibility of confessions, hearings, 13221
admissibility of slip laws and TIAS series—
law, 12824
reports, 5656, 16082
preserving, pertaining to assassination of President Kennedy, law, 420
refusal to testify, compelling of testimony and granting immunity in certain crimes, amend U.S. Code, report, 16108
Evjen, Victor H., Federal probation, journal of correctional philosophy and practice, 2954
Evolution:
division into 2 sexes, cybernetics viewpoint, USSR study, 14846
molecular diseases, evolution and human health, USSR study, 2200
Evvard, John C., wheel-flow gaseous-core reactor concept, 1244
Ewing, C. T.:
high-temperature properties of—
cesium, 1358
potassium, 1356
Examinations, classroom testing methods, direct vs indirect assessment of knowledge structures, 8193
see also Civil service—*also* types or subjects of examinations.
Examiners, *see* Bank examiners.
Excavating machinery, Federal item identification guides for supply cataloging supplements, 2932
Excavation:
Clay Bank in Gloucester County, Va., 5040
general construction plan for sea-level canal with nuclear explosives, 157
Isthmian sea-level canal, safety evaluation for air blast, ground shock, throwout, and dust, 155
nuclear development program plan, 153
nuclear explosions, 154
on-site survey program, Isthmian Canal studies, 158
Tutter's Neck in James City County, Va., 12397
Excess property, *see* Surplus property.
Exchanges, Coast Guard manual, 12766
see also Foreign exchange.
Exchanges (international), *see* International exchanges.
Excise taxes:
interest equalization tax act on foreign securities—
extend—
legislative history, 4150
Senate amdts., summary, 1861
impose, legislative history, 17398
IRS looseleaf regulations system, 860–861, 3169, 4564–65, 6071, 10681
reduction act of 1965—
legislative history, 1875
report, 543
summary, 1880
restore certain reductions—
hearings, 4151, 5804
law, 7032
summary, 7170
legislative history, 17399
reports, 5659, 5665, 7086
Senate amendments, summary, 8687
summary of bill as passed by House, 7211
see also names of items taxed.
Excitation (psychology):
mathematical models, USSR study, 2232
Excitation curve, shells, random pressure and statistical dependence effect of normal mode response, 1180
Executive Corridor, painting exhibit at Pentagon, 14213
Executive departments, see Government offices—Government reorganization plans—Government supplies.
Executive Office of the President:
appropriations, 1967—
hearings, 7115, 10322
law, 15699
reports, 8598, 11625, 13122
Executive offices, *see* Government offices.
Executive orders, *see* subjects.
Executive papers, Joint Committee on Disposition of reports, 504, 4089, 5633, 5639, 5667, 7082, 8606, 10118, 10168, 12947, 15836, 17210, 17224
Executive Seminar Center, Berkeley, Calif., general information, 14308
Executive Seminar Center, Kings Point, N.Y., general information, 1755, 14309
Executives:
business and industrial, civil defense management special instructions, 17026
International corps from U.S. business shows progress in Ghana, 14781
philosophy, problems, practices, bibliographic survey, 12656

Exercise:
cardiac patients program, 16983
cardiovascular responses following myocardial infraction, problems in aeromedical certification, 16982
parotid fluid steriod and electrolyte responses, 8219
physical, effects of during 4 weeks of bed rest on circulatory function in man, 8204
Exfoliative cytology, *see* Cytology.
Exhaust nozzles, *see* Nozzles.
Exhaust plumes, *see* Jet plumes.
Exhibitions, USSR, national economic achievements, information and data-processing equipment exhibited, 2272
see also subject.
Exhibits:
Arts and Industries Building, Smithsonian Institution, guide map, 16824
History and Technology Museum, Smithsonian Institution, guide map, 16825
international, prospects for sales, etc., 13438
Natural History Museum, Smithsonian Institution, guide map, 16826
science, evaluation of existing criteria for judging quality, 8295
USSR, industrial equipment reflects value of esthetics in working conditions, 2252
Expansion (thermal):
differential, provides pressure for diffusion bonding, 12311
Expansion tubes:
Langley pilot model with hydrogen driver, performance, 11056
performance, effect of area changes at primary and secondary diaphragm stations, 6459
simulation, theoretical investigation, 12372
Expansions in elliptic motion, 7952
Expenditures:
construction, employment effects, 13621
consumer expenditures and income—
rural farm population—
north central region, 14117
northeastern region, 15438
southern region, 14118
United States, 12590
western region, 25, 12589
rural nonfarm areas—
north central region, 2289
southern region, 2290
United States, 6255
western region, 2291
urban and rural—
north central region, 7662
northeastern region, 10854, 12207
southern region, 7663, 13591
United States, 10857, 12208
western region, 9205, 10856
defense spending, community adjustment to reductions, 14207
national health, 2566
personal health expenses, 6588
promotional, different levels, effect on sales of fluid milk, 4280
spending and saving in urban and rural areas, 2293
see also subject for which expenditures are made.
Expenditures of United States Government:
combined statement, 1965—
departmental edition, 3722
document edition, 4052
for research and related activities abroad, cutting to plug dollar drain, report, 8621
monthly statement, 3220
Experiment stations, *see* names of stations.
Experimental medicine, *see* Medicine.
Experiments and experimentation:
design of experiments in Army research and testing, conference proceedings, 9886
Experiments and experimentation—Con.
experimental statistics, handbook, errata, 7910
hypodynamia, USSR experiment, 2228
opportunities for participation in space flight investigations, change, 2449
Experts, Bulgarian efficiency, awards, 14951
Exploration of Sea, International Council, *see* Sea, International Council for Exploration.
Explorations:
exploration assistance, questions and answers about Geological Survey program, 13406
lunar, physics of moon, selected topics, 1243
naval petroleum reserve no. 4 and adjacent areas, northern Alaska, 1944–53 (series), 12017
petroleum, precise borehole gravimetry, 9017
see also Outer space.
Explorer, *see* Satellites.
Explorer (USC&GSS):
general information, 313
Explosions:
accidental, missiles study, manual for investigators, 8304
combustion and explosion, USSR study, 1044
effectiveness of explosion of charges with air spaces in rock, USSR study, 6162
Experimental Hall, Cambridge Electron Accelerator accident, July 5, 1965, investigation, report, 6865
explosions and snow, 1639
hazards of ammonium nitrate under fire exposure, 7718
industrial, experience in using for crustal studies in transition zone from Siberian platform to Taymyr downwarp, USSR study, 14804
origin and growth of cracks in solids as affected by charge design, USSR study, 6163
physics, USSR studies, 100716, 13500, 14958
Project Pre-schooner subsurface effects measurements, 14237
research and technologic work, 15012
shipyard hazards, maritime safety date, 16522
underwater scaling exploding wires, 16754
see Mine explosions—Nuclear explosions.
Explosive-expansion center-hold anchor, 4791
Explosive forming:
epoxy blanket protects milled part, 4866
force of primacord grid forms large sheet metal parts, 4851
Explosives:
and blasting agents, industrial, in United States, 1965, consumption, 16552
demolition materials, Army, technical manual, 3835
detonating in granite, end and axial methods, comparison, 2349
driven pile, optimization study, 11397
Federal item identification guides for supply cataloging, supplements, 2940
in granite, comparative studies, 1164
incendivity to coal dust, improved method for evaluating, 16573
liquids, drop weight testing, 12254
measurement of lateral pressure generated from cylindrical explosive charges, 2350
nuclear radioactive contamination resulting from use for stimulating petroleum production, 1158
research and technologic work, 15012
secondary and priming, chemical-kinetic basis for differentiation, 7902
series, engineering design handbook, 8229
Exponential curves, *see* Mathematics.
Exponential functions, *see* Mathematics.
Export control act of 1949, *see* Exports.

Export-Import Bank of Washington:
act of 1945, as amended through Dec. 31, 1965, 13302
appropriations, 1966, report, 545
appropriations, 1967—
hearings, 13014, 17568
reports, 15915, 16159
basic operations in long-term loans for capital equipment and emergency foreign trade loans (address), 10448
financial statements, examination, report, 807, 1801
loan and guarantee operations, report, 1797
Export trade, *see* Commerce.
Exporters, piggyback program, cooperative exporting, general information, 10031
Exports:
agricultural, alltime record in 1964 by increased dollar sales, 628
agricultural, from temperate and tropical zones, changes in prices and foreign exchange earnings, 7293
Alabama products, expansion (address), 325
by air, foreign trade report, 3001–3
comprehensive schedule, 7524
control, quarterly report, 2892
current export bulletin, 2815
dynamics of exporting (address), 14780
expansion—
Action Committee on Transportation, report, 7005
addresses, 328, 336, 1768, 1778–79, 4016, 5540, 6996, 8419–20, 9050, 10013, 10684–685, 12769, 12787, 12792
Commerce Dept. to carry out programs, hearings, 1929
export market research (speech), 365
export success story (periodical), 2898
financing, Action Committee on Export Financing, report, 7003
foreign trade reports, 2998–99, 8366
foreign trade, summary reports, monthly, 3641–44, 3648
how Commerce Department assists exporter (speech), 7525
how Commerce Department helps sell around the world, 4026
indirect export sales (speech), 6073
licenses approved and reexportations authorized, list, 2896
manufacturers' sales and orders, current industrial reports, 2817
mutual defense assistance control act of 1951, report, 6631
President's E award for export excellence—
presentation to—
American Creosote Works, Inc. (remarks), 12787
American Institute for Foreign Trade (address), 326
Bell & Howell Corp. (remarks), 10034
Clinton Engines Corp. (remarks), 10035
Cornelius Co. (remarks), 10043
Douglass Aircraft Co., Inc. (remarks), 8434
Honolulu Iron Works (remarks), 12793
Ling-Temco-Vought, Inc. (remarks), 12791
Oshkosh Motor Truck, Inc. (remarks), 11525
Paul Masson Vineyards, 327
Piper Aircraft Corporation (remarks), 355
raising E Flag over West Penn Power Co. (remarks), 352
profits low cost marketing aids, 4575
sales promotion announcements, 2897
small firms, marketing manual, 15323
statistical classification—
schedule B, 224, 3491
schedule W, 8369
Exports—Continued
taxation, Action Committee on Taxation, report, 7013
total trade, summary reports, monthly, 3648
trade by country, summary reports, monthly, 3643
trade by customs district, summary reports, monthly, 3644
trends (address), 7523
U.S. commodities, as related to output, 6939, 17018
U.S. Government action programs (address), 10689
United States airborne foreign trade, customs districts by continent, summary report, 11481
United States trade with major world areas, 15648
working-day and seasonal adjustment factors and months for cyclical dominance (MCD), 3940
see also names or classes of articles exported.
Exposure, weather resistance of porcelain enamels, 7-year test, 12380
see also Cold.
Expropriation:
losses, tax treatment—
law, 8469
report, 8728
Extension education, *see* Education.
Extension of plane strain analysis, 17878
Extension Service, Federal, *see* Federal Extension Service.
Extension work:
agricultural, laws, compilation, 12847
State services, need for ARS–USDA popular series publications, results of survey, 9795
Extensometer automatically measures elongation in elastomers, 12324
Extraction (chemistry):
lanthanides with tertiary amine, 13693
manganese from Georgia umber ore by sulfuric acid-ferrous sulfate leaching process, 1163
metal compounds from pyrazoline dithiocarbaminates, 9546
tungsten, from low-grade concentrates, by amine solvent, 17854
Extracts, *see* substances from which extracts are made.
Extradition, treaty with Kenya, 6646
Extraterrestrial life:
bibliography, 6362
detection by optical rotatory dispersion, development of instrument, 9399
Extrusion processes, high energy-rate extrusion, effect on structure and properties, 9378
Eyeglasses, *see* Spectacles.
Eyes:
disorders, summary of research progress, 1313, 16809
hazards demonstration, maritime safety data for shipyards, 4709
human, simulated by optical projects to establish field of view, 4847
ionizing radiation effects in nuclear-powered submarines, 14991
irritation by hazardous substances, illustrated guide, 2051
saccadic movements, visual and control aspects, 16594
television ophthalmoscopy, workshop proceedings, 15297
visual accommodation system in humans, 16612
see also Ophthalmology.
Eyre, Dorothy, relief, 17070

F

F.A.A., *see* Federal Aviation Agency.
F.B.I., *see* Federal Bureau of Investigation.

F.C.A., *see* Farm Credit Administration.
F.C.C., *see* Federal Communications Commission.
F.C.S., *see* Farmer Cooperative Service.
F.D.A., *see* Food and Drug Administration.
F.D.I.C., *see* Federal Deposit Insurance Corporation.
F.H.A., *see* Farmers Home Administration—Federal Housing Administration.
F.N.M.A., *see* Federal National Mortgage Association.
F.P.C., *see* Federal Power Commission.
F.P.C. R series, 4379, 5940
F.P.C. S series, 4380–81, 7373, 8903, 11926, 17655
FAA, *see* Federal Aviation Agency.
Faber, Fred L., present and alternative methods of pricing eggs, 4284
Fabius, Ala., coal resources of area, Jackson County, Ala., 13680
Fables, incunabula to modern picture books, bibliography, 7683
Fabricated materials:
  metal products, census of manufactures, 1963, industry report, 6909
  nonmetallic, Federal item identification guides for supply cataloging, supplements, 2938
  textile products, census of manufactures, 1963, industry report, 6896
Fabrication, *see* names of materials fabricated.
Fabrics, *see* Textiles—*also* names of fabrics.
Fabuss, Bela M.:
  calcium sulfate precipitation, 10673
  thermophysical properties of saline water systems, 12054
Face, *see* Head.
Facial disfigurement, rehabilitation problem, conference, 9758
Facilities handbook series, 12453
Facsimiles, rare historical maps, list of reproductions, etc., 17822
Factor analysis, factoring to fit off diagonals, 9914
Factories:
  factory operatives, assembers, electroplaters, etc., employment outlook, 9237
  labor turnover, monthly release, 2906
Factors in job-satisfaction, 14191
Factory workers, *see* Labor.
Facts for marketers (series), 6877–80, 8314–16, 9941, 14246
Facts on aging series, 2623
Factual campaign information, 4155, 11696, 17402
Faculty (schools):
  and other professional staff in institutions of higher education, 7306
  consulting, college and university policies, practices, and problems, 9575
  Soviet medico-biological faculty, 2151
  see also Teachers.
Fagerlund, Gunnar O., Olympic National Park, Wash., 5047
Failure free systems, *see* Reliability (mechanical).
Fair employment practices, *see* Discrimination in employment.
Fair labor standards act, *see* Labor standards.
Fair packaging and labeling act, *see* Packaging.
Fairs:
  international, prospects for sales, etc., 13438
  trade, list of nations scheduling, 4574
Faisal, King, of Saudi Arabia, American petroleum interests behind Faisal-Johnson discussions, USSR study, 13459
Fajardo-Carpio, Arturo V. relief, 8702, 15675
Falculina, *see* Microlepidoptera.
Falke, Wilbert L., reduction-volatilization processes for recovery of manganese from ores, 6324
Falkowski, Evelyn, Saturn illustrated 1957–65 chronology, 2450
Fallout, *see* Radioactivity.
Falls, safety dial, 1086
Falter, Kenneth H., measurement of iodine-131 in bovine thyroids, 2535
Families:
  American families in poverty, fact sheet, 1552
  Appalachian region, family chicken flock for Appalachia, 11355
  by type, 1965, population characteristics, 14270
  change, approaches to measurement, 14085
  consumer expenditures and income, cross-classification of family characteristics, urban and rural—
    north central region, 10855
    northeastern region, 12207
    southern region, 13591
    total U.S., 12208
    western region, 10856
  family care treatment of mentally ill, bibliography, 12551
  family counseling in rural community action, 11859
  family economics review, 2907
  family life patterns associated with poverty, 11319
  family planning—
    article, 11482
    one aspect of freedom to choose, 13418
    program, hearing, 14499
    white-nonwhite differences in U.S., 9029
  family status, Mar. 1965, population characteristics, 266
  family therapy, annotated bibliography, 7929
  farm—
    improving income and strengthening economic position (remarks), 5296
    mobilizing rural resources that will expand opportunities (remarks), 5297
  food for young families, 6764–66, 8157–59, 9826
  household and family characteristics, 7007
  income, 1965 median, 14277, 15592
  low-income—
    parent and family life education, 6942
    training home economics program assistants to work with families, 62
    upward bound, program to help youth achieve college education, policy guidelines, etc., 7284
    women's earnings, 2634
  poverty areas, population characteristics, 14272
  public assistance for dependent children, State cost standards for basic needs, Jan. 1965, revised table, 7343
  public welfare services, staff utilization—
    auxiliary workers, 11906
    social workers with differing levels of education, 11907
  research relating to children, studies in progress, 12734
  rural families, social security amendmendments of 1965, benefits, etc., 1971
  services under AFDC for children who need protection, caseworkers' manual for public assistance agencies, 1999
Family courts, *see* Domestic relations courts.
Family farms, *see* Farms.
Family Services Bureau:
  fact sheet, 5902
  public assistance to help needy people, 10450
  publications, list, 683
  staff development, 1964 report, 5901
Fankhauser, James C., comparison of kinematically computed precipitation with observed convective rainfall, 1537
Fanning, John H., address, Nov. 30, 1965, 1322

Fans, *see* Ducted fans—Electric fans—Mechanical fans.
Far East, *see* East (Far East).
Farallon National Wildlife Refuge, general information, 14671
Farbriken Bayer, A.G., titanium dioxide manufactured, notification of investigation, 8096
Fares, *see* Air carriers.
Farley, Kenneth R., determination of cesium and rubidium by flame photometry, 15023
Farm buildings:
  building plans—
    cattle feeding rack for hay and silage, 11362
    display stands for farm produce, 11360
    free-stall dairy system for 101 cows, 16933
    3-bedroom, farmhouse, 56, 8151, 9824
    masonry construction, 54
    slab on grade, 5294
    2-bedroom farmhouse, masonry construction, 55
  cooperative farm building plan exchange (series), 54–56, 5294, 8151, 9824, 11360–362, 12610, 14146, 15453–456, 16932–933
  plumbing for farmstead, 6743
  plumbing repairs, 16924
Farm credit, *see* Agricultural credit.
Farm Credit Administration:
  appropriations, 1966, law, 418
  appropriations, 1967—
    hearings, 8648, 11787
    law, 15735
    reports, 8614, 13152, 17216
  audit reports, 5611, 6004
  circular, 4349
  laws, simplification—
    hearings, 5795, 13009
    law, 17094
    reports, 8738, 12942
  publications on farm credit cooperatives, 4349
  report, 1964–65—
    departmental edition 10452
    document edition, 10098
Farm credit examiners, examination announcement, amdt., 15627
Farm equipment, *see* Farm implements and machinery.
Farm houses, *see* Farmhouses.
Farm implements and machinery:
  agricultural machinery in 1964, uses, custom and exchange work, machine rental, 11368
  current industrial reports, 253, 2818
  equipment for applying soil pesticides, 5284
  farm machinery and equipment, census of manufactures, 1963, industry statistics, 8335
  Federal item identification guides for supply cataloging, supplements, 2933
  retail trade, employee earnings, 13611
  USSR industrial development, translations, 3669
Farm income *see* Income.
Farm index (periodical), 2909
Farm labor:
  agricultural specialists, raising qualifications, USSR decree, 6214
  developments, 2911
    employment and wage supplement, 2912
  hired farm workers under fair labor standards act as amended in 1966, 18141
  hired workers, minimum wage, extending, study, 5220
  hired working force of 1965, statistical report, 16224
  housing, loans and grants, 12611
  injuries to young farmworkers, 14967
  Maine, importation into U.S., investigation, hearings, 4130
  Michigan farm labor panel report, 2280
  migrant worker and his family under economic opportunity act, 7280
    July 1–Oct. 31, 1965 projects, 7281
Farm labor—Continued
  migratory problem in U.S., report, 14468
  monthly report, 2910
  new national program (address), 4697
  old-age, survivors, disability, and health insurance, farm workers under, 15332
  seasonal, year of transition, 1965 report, 4701
  social security, employers tax guide, 2115
  status of agricultural workers under State and Federal labor laws, 4705
  switching from reliance on foreign workers to domestic workers (remarks), 4331
  youth publications, list, 10852
Farm legislation, *see* Agriculture.
Farm machinery, *see* Farm implements and machinery.
Farm management, *see* Farms.
Farm mortgages, *see* Mortgages.
Farm prices, *see* Prices.
Farm products, *see* Agricultural products.
Farm Resources Research Advisory Committee, report and recommendations, 3770
Farm supply cooperatives, *see* Farmers cooperative organizations.
Farm work, *see* Farm labor.
Farm workers, *see* Farm labor.
Farmer, Evelyn M., Department of Commerce publications, 1964 supp., 364
Farmer Cooperative Service:
  appropriations, 1967, hearings, 8648, 11787
  bulletin, reprints, 2000, 14589–592
  circular, 5908
  educational circulars, 684, 5909–10, 7347–48, 10453
  general reports, 4350–51, 8871, 14594, 16254
  information series, 2001–2, 4352, 5911, 11908, 13304
  publications, list, 11908
Farmers:
  agricultural cooperation, pioneer to modern, 14591
  disaster areas, permit to comply with acreage reduction agreements, report, 1829
  examination announcement, discontinuance notice, 8397
  facts for prospective farmers, 12599
  farmer and consumers, agricultural marketing, vital link, 6753
  farmer committee administration of agricultural programs, 6725
  farmers and their debts, role of credit in farm economy, 11862
  farmers under old-age, survivors, disability, and health insurance, 15332
  financial calculations and physical measurements, handbook, 16919
  gas tax credit, 14775
  income gains made since 1960, statement, 14154–157
  publications, list, 843
  self-employed—
    getting social security credit, 1467
    reporting income for social security, special information, 9655
  skill of our farmers again looked upon as unmixed blessing (summary of remarks), 6782
  social security amendments of 1965, benefits, etc., 1971
  social security, farm rental income, 18100
  social security information, 6604
  tax deduction from gross income for assessments for depreciable property levied by soil or water conservation or drainage districts, reports, 17334
  tax guide, 2117
  see also Farmers cooperative organizations.
Farmers' bulletins, 32–35, 1583–84, 6742–44, 8145–46, 9817, 11350–351, 12599–600, 14135–136, 15442–444, 16923–924

Farmers cooperative organizations:
and patrons, per-unit capital retains, tax treatment, 4352
approaches and problems in merging, 13304
bargaining, Agriculture Department's interest (remarks), 5289
citrus cooperatives, Florida, pooling following 1962 freeze, 14142
cooperatives-partners in American life, 1965 observance, proceedings, 14593
costs and practices in operating bulk-feed trucks, 4351
directors—
democratic election, 5909
training programs, 5910
discrimination against members, hearings, 13190, 16168
farmers use member-owned cooperatives extensively, general information, 2002
losses in transporting and handling grain, 14143
membership, should requirements be tightened? 10453
news for farmer cooperatives, 3270
reprint, 14595
partners in American life, 2001
publications, 685
regional farmer cooperatives, financial structure, 8871
statistics, 14594
what members should know, 684
women and cooperatives (talks), 5911
Farmers Home Administration:
appropriations, 1967, hearings, 8648, 11787
consolidated act of 1961, amend—
hearings, 4210, 17355
law, 17126
reports, 12983, 16153, 17315
farm mortgage lending experience, 14547
insured loans—
information for lenders, 3763
payment of installments—
law, 17126
reports, 12983, 16153
land conveyance to Skyline Churches Cemetery, 17183
loans and grants for farm labor housing, 12611
loans on leased lands in Hawaii, authorize—
law, 15756
reports, 11768, 14398
opportunity loan program, general information, 8161
procedures for determining whether loan applicants are unable to obtain financing from private or cooperative credit sources, need to strengthen, GAO report, 4500
recreation facilities and services operated by FHA borrowers, 14541
strengthens family farms, etc., 8160
valueless liens, etc., release, report, 17315
Farmhouses:
farm building plans—
3-bedroom farmhouse 56, 8151, 9824
masonry construction, 54
slab on grade, 5294
2-bedroom farmhouse, masonry construction, 55
Farming, *see* Agriculture.
Farms:
Agriculture Dept. provides year-round fun, publications list, 6775
commercial, costs and returns, long-term study, 1954–63, 8167
conservation plan, what it is, 1596
cost situation, 1966 outlook issue, 629
costs and returns, 621, 10412, 14530–533
commercial, by type, size, and location, 12597
commercial Corn Belt, 14533
Farms—Continued
costs and returns—continued
commercial egg-producing farms, New Jersey, 14532
commercial tobacco farms, coastal plain, North Carolina, 10412
commercial tobacco-livestock, Bluegrass area, Ky., 14531
commercial wheat farms, Pacific Northwest, Southern and Northern Plains, 14530
family, Farmers Home Administration strengthens, 8160
farm policy (address), 3741
farms and farmland, 1964 frequency distribution, 5279
flooded, first aid, 3743
land in farms, U.S. 1959–66, by States, 1964–66, 6662
management, publications, price list, 5100
number in U.S. 1959–66, by States, 1964–66, 6662
population—
1965 estimates, 14537
1965, United States, 8358
series Census ERS, 8358
production and efficiency changes, summary report, 12614
program, food and agriculture act of 1965—
law, 423
questions and answers relating to consumers, 36
radioactive fallout defense, 33
real estate—
market developments, 7292, 14548
taxes, recent trends and developments, 1973
safety week, 11364
United States, diversity of change, 1964 (text of remarks), 3941
watershed work begins on farm, 6763
wheat allotments, statistical analysis by states, etc., 1964, 27
wild ducks on farmland in South, 8146
see also headings beginning Agricultural—Farm.
Farmsteads, *see* Farm buildings.
Farnes, P. E., water supply outlook and Federal-State-private cooperative snow surveys for Montana, 3690
Farnworth, Virginia M., marketing bill for cigarettes, 622
Farrar, John, nucleation and growth of ice crystals, 4552
Farrell, Donald F., relief, 5728, 7026
Farrell, James L., attitude determination by Kalman filtering, 16608–609
Farrior, Gilbert M., diborides in pseudobinary system TiB_2–CrB_2 electrical properties, 1162
FAS–M series, 2054–55, 4432, 5970, 8948, 10551, 11989, 13352–354, 16319, 17680
Fascell, Dante B., report on activities of International Cooperation Year, 11655
Fascenelli, Frederick W., maxillary sinus disease in aviators, 9862
Fast announcement (periodical), 2913
Fast reactors, *see* Reactors (atomic).
Fasteners, *see* Bolts and nuts—Fastenings.
Fastenings:
fastener distributes stress evenly from sandwich-panel hung items, 1233
flexible fastener effects airtight material closure, 13740
space vehicles fasteners and fastener materials, evaluation, 4814
threaded, nickel/tin coating protects in corrosive environment, 2402
Fasting, ameliorative measures in subarctic survival situations, 5313
Fat, *see* Fats.
Father Flanagan's Boys' Home of Boys Town, Nebr.:
memorial to founder, authorize—
law, 1787
reports, 492, 1925

Father Marquette Tercentenary Commission, creates, report, 1841
Father's Day:
designate—
law, 11559
report, 11761
Fatigue:
phase shift of human circadian system and performance deficit during periods of transition—
East-West flight, 8308
North-South flight, 9936
West-East flight, 11446
Fatigue of materials, *see* Strains and stresses.
Fats:
census of manufactures, 1963, industry statistics, 8329
current industrial reports, 2817
fats and oils situation, 2914
foreign agriculture circulars, 2987
human body fat, measured by water displacement of adult male, 14235
outlook (talk), 4290
Fauconneau, Guy, eigenvalue problem for beams and rectangular plates with linearly varying in-plane and axial load, 15056
Faulkner, Rafford L.:
remarks—
May 6, 1966, 8299
Sept. 8, 1966, 14240
Faults (geology):
Hayward fault zone, Calif., tectonic creep, 4517
Fauna, Fauna series, 13880
see also Marine fauna.
Fava, James A., availability of scientific journals in defense oriented libraries, 12626
Fay, William T., paper, Apr. 18, 1966, 9966
Fayette County, Ala., soil survey report, 8031
Fazar, Willard, address, Jan. 24, 1966, 15561
FBI, *see* Federal Bureau of Investigation.
FCA, *see* Farm Credit Administration.
FCC, *see* Federal Communications Commission.
FCR series, 621, 10412, 15430–533
FCS, *see* Farmer Cooperative Service.
FDA, *see* Food and Drug Administration.
FDA memo for consumers, CM (series), 2049, 5968, 8946, 10545
FDA poster series, 13351
FDIC, *see* Federal Deposit Insurance Corporation.
FDL-(series), 8940, 11968–971, 14652
Fear in America today (remarks), 12788
Featherston, Paul E., portable field cage for mass culturing aphid parasites, 9774
Feces, normal fecal bacterial flora of man, study, 10942
Fecundity, fertility of population, June 1964 and Mar. 1962, 3926
Federal agencies, *see* Government offices.
Federal aid, *see* Grants-in-aid.
Federal and State enabling legislation for fruit and vegetable marketing orders, 17949
Federal assistance in outdoor recreation available to States, their subdivisions, organizations, individuals, 11165
Federal Aviation Administration, establish, reports, 11634, 12973, 16158, 17291
Federal Aviation Agency:
air traffic activity, report, 1965, calendar year, 5913
air traffic control operations, hearings, 11658
airmen, other than flight crewmembers, certification, Federal aviation regulations, 7353, 10461–462, 11913, 14604, 16262
airport traffic control towers at low-activity airports, savings by use of conventional design, GAO report, 12007
airspace advisory for Project Sulky, 16975
Federal Aviation Agency—Continued
airworthiness directives, 2671
biweekly, 2903
large aircraft, summary, 3554, 10470
small aircraft, summary, 3555, 10471
appropriations, 1966, supplemental, 17157
appropriations, 1967—
amendment, proposal, 7071
hearings, 8651, 13193
bibliographic list, 17645
consolidated listing of FAA certificated repair stations, 11980
contractions used in air traffic control, etc., handbook, 9878
definitions and abbreviations, Federal aviation regulations, 5916, 8875–76
descriptors thesaurus, 4363
economies from making electron tubes available to other Government users, GAO report, 7466
employees, contractor-furnished, savings through payment of relocation costs, GAO report, 8987
enforcement procedures, regulations, 13306
examination guide, ground instructor, instrument, 2048
FAA handbook series, 2003, 5914–15, 7349, 8872–74, 10456, 16255–256
FAA in action for you, picture story, 10469
Federal-aid airport program handbook, field operations procedures, 5914
Federal aviation regulations, 686–693, 2005–9, 3554–55, 4354–60, 5916–22, 7350–57, 8875–88, 10459–468, 11909–913, 13306–310, 14599–617, 16257–265, 17646–648
status, 4362, 7357, 14618
field facility directory, 4361
flight standards career planning handbook, 2003
general aviation inspection aids, summary, 16266
historical fact book, 1926–63 chronology, 10458
medical research on aging of aviation personnel, GAO review, 8996
military aircraft parts, savings through use, GAO report, 8985
merit promotion program handbook, 10456
publications, 13305
report, 10457
rule making procedures, FAA regulations, 16257
statistical handbook of aviation,
transfer—
hearings, 8774, 10246, 10346, 11809, 13040, 13212
message from the President, 5617
reports, 11634, 12973, 16158, 17291
Federal Aviation Agency Academy, Okla., catalog, 14598
Federal Banking Commission, establish, hearings, 1848
Federal buildings, *see* Public buildings.
Federal Bureau of Investigation:
agents, employment outlook, 9238
general information, 7359
Federal career directory, guide for college students, 8400
Federal civil defense guides, 1745–46, 3963–64, 5509, 6954–57, 9983–86, 12739–740, 15619–620, 17020–22
Federal civil service, *see* Civil service.
Federal Coal Mine Safety Board of Review:
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10281
members, nominations, hearing, 17594
reconstitute—
law, 7040
report, 5784

Federal Communications Commission:
actions in docket cases, reports, 2916
actions on motions, reports, 2916
annual report, 4364
appropriations, 1967, hearings, 8651, 13193
authority to regulate CATV, hearings, 10250
decisions and reports—
bound volumes, 694, 5924, 13313
periodical, 2918
decisions, reports, public notices and other documents (periodical), 2917
domestic public radio services, rules and regulations, 13314
international fixed public radiocommunication services, rules and regulations, 13314
jurisdiction over radio signals, etc., prohibit, hearings, 10250
maritime services, radio stations on land, shipboard, etc., rules and regulations, 2922
memorandum opinions, etc., 3190
nomination of Robert T. Bartley, hearings, 4215
nonbroadcast and general actions, reports, 2916
organization, FCC rules and regulations, 2919
practice and procedure, FCC rules and regulations, 2919
press releases, 3362
public notices, 2916, 3362
regulate devices which emit frequencies harmful to radio reception, report, 10314
regulatory and enforcement activities relating to small business, hearings, 15991, 17395
rules and regulations, 2012
transmittal sheets, 2919–27
satellite communications, rules and regulations, 13314
Federal coordinator offices:
establish—
hearings, 8659
message from the President, 5605
summary of bill, 8664
Federal Council on Science and Technology:
COSATI subject category list, DoD-modified, 1963
report, 1963–64, 2550
Federal credit unions:
act, amended to July 2, 1964, Spanish edition, 2013
anniversary, 31st, 14622
completing organization, guide, 4366
credit manual, revised pages, 11914
handbook, revised pages, 4367–68, 8890
membership, benefits from, general information, 13315
money worries? credit union can help, general information, 695
report, 1965, 14622
supervisory committee manual, 8891
Federal Crop Insurance Corporation:
appropriations, 1967, hearings, 8648, 11787
financial statements, 1965, GAO examination, 4065, 4493
Federal Deposit Insurance Corporation:
annual reports, 4369, 10472
audit reports, 6005, 7063
Board of Directors, member, nomination of William W. Sherrill, hearing, 5800
Board of Directors to consist of 3 appointive members—
hearing, 8658
report, 10137
insured banking offices, list, 8892 supplements, 3155
press releases, 3363
regulatory authority, strengthen—
hearing, 11794, 15963
report, 16101
Federal Deposit Insurance Corporation—Continued
report of call, 696, 14624
symbol of confidence, history, functions and operations, 13316
Federal Development Planning Committees for Alaska:
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10281
Federal disaster assistance, 4322
Federal employees, *see* Government officials and employees.
Federal employees' compensation act, *see* Employers' liability and workmen's compensation.
Federal employment, *see* Employment.
Federal executive policy governing reporting of recreation use of Federal recreation areas, 11175
Federal expenditures, *see* Finance.
Federal Extension Service:
appropriations, 1967, hearings, 8648, 11787
Extension Service review (periodical), 2902
what it does, time invested, and whom it serves, 14626
Federal Fire Council:
films and slides for safety programs, list, 14741
fire experience, 16353
library accessions, list, 3152
minutes of meetings, 13388, 16352
periodicals received, list, 4509
Federal focal point in outdoor recreation, 16774
Federal funds for research, development, and other scientific activities, 17964
Federal Government, *see* Government.
Federal grading services, *see* Grading of commercial products.
Federal Highway Administration, establish, reports, 11634, 12973, 16158, 17291
Federal Home Loan Bank Board:
appropriations, 1967, hearings, 8651, 13193
audit reports, 470, 14721, 17164
digest, 2929
member, nomination of Robert L. Rand, hearing, 17573
press releases, 3364
regulatory authority, strengthen—
hearings, 11794, 15963
report, 16101
report, 13317
Federal Home Loan Bank System, combined financial statements, 1964, members of System, 7362
Federal home loan banks:
audit reports, 806, 1800
financial statements, 1965, GAO examination, 14385, 14722
operations, report, 13317
Federal Hospital Insurance Trust Fund, Board of Trustees, *see* Board of Trustees of Federal Hospital Insurance Trust Fund.
Federal Housing Administration:
accounting manual for acquired properties, 4370
consumer bulletin, 7368
current money market, mortgage insurance operations, hearing, 5686
FHA and home-buying serviceman, 698, 13319
FHA housing for the elderly, projects and people, 11924
FHA quick guide for buying a home, 7366, 13322
FHA regulations, 4374–76, 5936–37, 7367, 8897–98, 11918–921
financial statements, 1964, GAO examination, 6007
financial statements, 1965, GAO examination, 7065

Federal Housing Administration—Continued
financing for home purchases and home improvements, consumer bulletin, 5935, 14629
Spanish edition, 2017
forebearance provisions, consumer bulletin, Spanish edition, 7365
home mortgage insurance—
area trends, 4371, 10473
consumer bulletin, 2015, 11917
State trends, 4377, 10475
insurable loans, digest, 7364
minimize rental delinquencies on acquired properties, GAO report, 4499
minimum property standards for urban renewal rehabilitation, 16272
mortgage insurance approval for housing project for elderly—
Fort Worth, Tex., GAO report, 6021
Houston, Tex., GAO report, 6022
mortgage insurance for high-rise multi-family housing project, Newark, N.J., approval, GAO report, 6003
nursing-home mortgage insurance, 13321
press releases, 3365
repair practices rel. to single-family properties acquired through mortgage insurance programs, GAO review, 12005
savings by discontinuing liability insurance on acquired property, GAO report, 14729
technical studies, list, 10474
title 10, mortgage insurance, land development handbook, 11922
travel handbook, manual, 13320
wood products used in single-family houses inspected by FHA, 6779
Federal Interdepartmental Task Force on Potomac, interim report to President, 4549
Federal intermediate credit banks:
debentures issued, delete interest rate limitation—
law, 17109
reports, 17206, 17463
Federal item identification guides for supply cataloging, 4252–53, 5850
supplements, 2930–40
Federal item identification guides improvement program, general conference, 11848
Federal Land Bank Month, designate, report, 11759
Federal land banks:
farm mortgage lending experience, 14547
medal in commemoration of anniversary, report, 11772
Federal Library Committee:
library vacancy roster, 9344
newsletter, 2979
Federal manual for supply cataloging, 603–605, 4244
Federal Maritime Administration:
establish—
hearings, 15984
reports, 11634, 12973, 15873–874, 16158
Federal Maritime Commission:
appropriations, 1967—
hearings, 15955
reports, 15938, 17539
authority to exempt water carrier operations from certain provisions of shipping act, 1916, reports, 14456, 17293
commissioners, provide 5 year terms, report, 1915
decisions—
bound volume, 17653
separates, 2843
five ways FMC contributes to American merchant marine (remarks), 10476
orders, notices, rulings and decisions, 3301
powers and responsibilities, summary (remarks), 8902
press releases, 3366
REA Express, research collaboration, staff study, 4583
Federal Maritime Commission—Continued
regulatory functions in country's commerce (address), 700
regulatory responsibility (remarks), 10477
regulatory system (remarks), 5938
report, 1965—
departmental edition, 2020
document edition, 1799
rules of practice and procedure in proceedings under shipping act, etc., and related acts, 11925
SP series, 700–702, 4378, 5938–39, 7369–71, 8901–2, 10476–477, 14633–634, 17654
transfer, hearings, 8774
Federal Mediation and Conciliation Service:
appropriations, 1967—
hearings, 8650, 14472
reports, 8626, 16151
employment opportunities, mediator positions, 10478
report, 14635
Federal Metal and Nonmetalic Mine Safety Board of Review:
create—
law, 15750
report, 16072
Federal mutual savings bank act, *see* Banks and banking.
Federal National Mortgage Association:
current money market, mortgage purchase activities, etc., hearing, 5686
increase borrowing and purchasing authority—
law, 17100
reports, 15846, 17217, 17464
press releases, 3367
trust agreement with SBA to sell loan pool participation certificates—
hearings, 8662–63, 8681, 10267
reports, 5785, 8615
trustee for sale of participations, authorization, 1967, proposal, 11697
trustee, permit sale of loan pool participation certificates to private investors—
hearings, 8681, 10236, 10267, 10331
law, 10080
message from the President, 8505
remarks, 9752
reports, 8616, 8746, 10145
Federal news clip sheet, 2942
Federal Old-Age and Survivors Insurance and Fedral Disability Insurance Trust Fund, *see* Board of Trustees of Federal Old-Age and Survivors Insurance Trust Fund and Federal Disability Insurance Trust Funds.
Federal personnel manual, *see* Civil service.
Federal planning, *see* Economic policy.
Federal Power Commission:
act, amend, hearings, 17576–577
appropriations, 1967, hearings, 8651, 13193
daily news digest, 3268
jurisdiction, exempt nonprofit cooperatives, clarify, hearings, 19131
member, nomination of Lee C. White, hearing, 7208
organization and work, informal explanation, 11927
practice and procedure rules, 2953, 7382
press releases, 3368
principle electric facilities, maps (series), 7374–81
publication list, 5941
R series, 4379, 5940
regulations under Federal power act, 3460
regulations under natural gas act, 726
report, 1965—
departmental edition, 7372
document edition, 7058
report, safety of interstate natural gas pipelines, 8770
reports, opinions, decisions, and orders—
bound volume, 10479
monthly, 2952

239–221—67—No. 863——18

Federal Power Commission—Continued
S series, 4380–81, 7373, 8903, 11926, 17655
water resource appraisals for hydroelectric licensing, planning status reports, 4384–87
Federal Prison Industries, Inc., financial statements, 1965, GAO examination, 4494
Federal probation (periodical), 2954
Federal procurement regulations—
FPR amendments, 2955
temporary regulation, 813
Federal programs that provide jobs and job training, 7640
Federal property, *see* Public property.
Federal Radiation Council:
appropriations, 1967—
hearings, 8650, 14472
reports, 8626, 16151
protective action guides, hearings, 4038
Federal Railroad Administration, establish, reports, 11634, 12973, 16158, 17291
Federal register, 2956
codification guide, list of CFR sections affected, 2958
index, 2957
Federal regulations, *see* Code of Federal regulations—*also* subjects.
Federal Republic of Germany, *see* Germany.
Federal reserve agents fund, transactions, 3069
Federal reserve banks:
condition, weekly statement, 2905
direct purchase of U.S. obligations, extend authority—
law, 12821
reports, 11748, 15840, 15845
Government bonds held, retirement of $30 billion interest-bearing obligations, hearings, 15964
hours, opening and closing, and holidays, 3289
interdistrict settlement fund, transactions, 3069
reserves in gold certificates against deposit liabilities, eliminate requirement, report, 1820
State member banks, 1965, list, 4392
see also other headings beginning Federal reserve.
Federal reserve bulletin, 2959
Federal reserve chart book, financial and business statistics, 2960
historical supplement, 16279
Federal reserve member banks:
assets and liabilities—
monthly report, 2695
summary report, 2696
changes in State bank membership, weekly announcement, 2743
condition, weekly statement, banks in leading cities, 2779
revision, 16285
demand deposits, currency, etc., 2848
deposits, reserves, and borrowings, semimonthly report, 2853
Federal Reserve float (statement), 4393
loans, 3188
maximum interest payable on time and saving deposits, regulation Q, supplement, 734, 17661
reserves and credit, weekly averages, 2905
reserves of member banks, regulations—
amendment, 11948
supplements, 11949, 14639
State member banks, list, 4392
supplements, 3535
Federal reserve notes:
unfit for circulation, destruction—
hearing, 7127
law, 10078
report, 8617
subcommittee report, 7128
Federal reserve par list, 2961
Federal reserve system:
check clearance float, hearing, 7146
Federal reserve act, amend—
hearing, 14476
law, 15764
reports, 12976, 16131
foreign exchange operations, 7421, 17663
membership (remarks), 10513
State banking institutions, membership, regulations, 16284
Federal Reserve System Board of Governors:
applications received, or acted on, during week, 2683
Federal Reserve's role in economy (remarks), 728
hours, opening and closing, and holidays, 3289
member, nomination of Andrew F. Brimmer, hearing, 5800
portfolio, statements, 4041
press releases, 3369
recent action and economic policy coordination, hearings, 5596
print additional copies, reports, 7194, 10188, 10211
regulation series, 734, 4391, 8925, 11948–951, 14639–642, 16284, 17661
regulatory authority, strengthen—
hearings, 11794, 15963
report, 16101
report, 1965 operations, 8922
research library, recent acquisitions, 3470
statistical releases, 2700
Federal Salary Review Commission, establish, law, 403
Federal savings and loan associations:
combined financial statements, 1964, summaries of conditions and operations, 5932
operations, report, 13317
rules and regulations, 8894
changes, 17652
Federal Savings and Loan Insurance Corporation:
appropriations, 1967, hearings, 8651, 13193
insured savings and loan associations, average annual dividend rates paid, 14627
operations, report, 13317
regulatory authority, strengthen—
hearings, 11794, 15963
report, 16101
savings and loan associations, insured savings and mortgage activity, selected balance sheet items, 3010
Federal seed act, 14510
Federal service, *see* Civil service.
Federal ship mortgage insurance fund, financing of ship construction, reconstruction, etc., 2310
Federal specifications, *see* Government supplies.
Federal standards, 736–737, 4395–96, 7423, 10516, 11953–955, 14644, 16289, 17665–667
index, 7426
Federal-State Crop and Livestock Reporting Service, 100 years, 1866–1966, crop and livestock reports, development and progress, chronology, 15378
Federal-State-local relations, *see* Intergovernmental relations.
Federal statistics, decade of progress, remarks, 15644
Federal Supplementary Medical Insurance Trust Fund, Board of Trustees, *see* Board of Trustees of Federal Supplementary Medical Insurance Trust Fund.
Federal supply catalogs, 4254–56, 5851, 8809–11, 17611
Federal supply classification handbook:
alphabetic index, 4243
groups and classes, 1960
Federal supply code, *see* Government supplies.

Federal Supply Service:
fire safety personnel, Federal Fire Council, minutes of meeting, 13388
general information, 8930
Federal tax policy, *see* Taxation.
Federal test method standards, 4397, 7424, 14645
Federal textbook on citizenship, 2110, 4543–44, 6050–52, 7502–4
charts, 6053
Federal Trade Commission:
appropriations, 1967, hearings, 8651, 13193
decisions (separates), 2969
industry conference on marketing automotive gasoline, hearings, 4146
news summary, 2970
press releases, 3370
regulatory and enforcement activities relating to small business, hearings, 15990
report, 1965—
departmental edition, 8931
document edition, 8490
says, elderly people, investigate, stop, look, 11958
statutes and court decisions, 1964 supplement, 11959
trade practice rules, proposed, 3424
Federal wage-hour law, *see* Labor standards.
Federal Water Pollution Control Administration:
establish, hearings, print additional copies, report, 5758
transfer—
hearings, 8669, 10350
message from the President, 5613
report, 8639
Federation of South Arabia, *see* South Arabia, Federation of.
Federer, C. Anthony, sustained winter streamflow from ground melt, 8957
Federman, Philip, communications as measurable index of team behavior, 1350
Feed, *see* Food for livestock—Food for poultry—*also* other headings beginning Food.
Feed grains, *see* Grain.
Feed-through connector withstands high temperatures in vacuum environment, 2379
Feed water, quality improvement, Webster, S. Dak., electrodialysis plant, pilot study, 14773
Feedback control systems, quasi-optimum techniques, study, 15043
Feedback delay, *see* Time delay.
Feedback loop compensates for rectifier nonlinearity, 15112
Feeders, portable hog feeders from red oak lumber, 10591
Feeding, *see* Emergency mass feeding.
Feeding young children, 6764
Feedlots, cattle, size groups, number, 15383
Feely, Herbert W., flight data and results of radiochemical analyses of filter samples collected during 1963 under Project Stardust, 8282, 9919
Fees:
attorneys, for services rendered in proceedings before administrative agencies, arbitrary limitations, remove—
hearing, 11819
report, 13124
bankruptcy, amend act to give court supervisory power, report, 5774
brokers', for VA property management—
law, 17121
reports, 5650, 16143
collection for services under navigation laws, hearing, 10333
Copyright Office, increase, law, 399
establish, for abstracts of medical records furnished by PHS to private parties, GAO report, 14727
foreign countries for visa of United States passports, 8060
Fees—Continued
grazing, effects on incomes of western livestock ranches, 4279
natural resources user charges, study, 3867
navigation, flood control, etc., projects, prohibit charges—
hearings, 10263
report, 10154
outdoor recreation—
questions and answers, 9602
regulations, 13431
see also Talent fees.
Fehlberg, Erwin, one-step integration methods applied to problems in celestial mechanics, 16708
Feistner, Arian R., capacity of refrigerated warehouses in United States, 18127
Feitler, Stanley A., minerals industry of New York, 2337
Feiveson, Alan H., generation of random sample-covariance matrix, 4951
Feldman, Herman, relief, 15797
Feldspar:
feldspar and related minerals, mineral industry survey, annual, 12233
minerals yearbook chapter, 15005
potash, economic value, Barstow formation, San Bernadino County, Calif., 2094
Feldt, E. D., consolidation of snow, 8241
Fellowships:
Community Health Services Division, research and research training grants and fellowship programs, 1433
elementary and preschool child development specialists training—
hearings, 5689
report, 5676
experienced teachers, elementary and secondary, for graduate study, program, 7305
Fulbright-Hays graduate, overseas projects in education, 16233
higher education act of 1965, prospective teacher graduate programs, 1966–67, 11880
national defense, 1966–67 graduate programs, 4312
National Science Foundation, 1965, 2475
NIH staff fellowship program, 16804
nursing research, 12464
postdoctoral research, Public Health Service program, 12474
Public Health Service grants, 1965 funds, 6490
water pollution control research and training grants 1965 awards, list, 1446
Felsic rocks, *see* Rocks.
Felsing, William A., jr., proceedings of Joint Sanitation Seminar on North Pacific Clams, 13984
Felt, current industrial reports, 2818, 3922
Felton, Jean S., survey of medicine and medical practice for rehabilitation counselor, 12554
Femia, Maria G., relief, 1888
Feng, Paul Y., radiation synthesis involving halogen compounds, 15529
Fengtien, Manchukuo, *see* Mukden, Manchuria, China.
Fenn, David B., steady-state performance of modified Rankine cycle system using water, 6470
Fenton, R. H., pre-commercial thinning not recommended for Virignia pine stands in southern Maryland, 4443
Feole, Maria G. I., relief, 128894, 14363, 16044
Ferdinando Po, Equatorial Guinea, background notes, 16847
Ferguson, Charles R., nomination, hearing, 17594
Ferguson, Francis, Divine comedy, as a bridge across time (lecture), 2306
Ferguson, H. K., Company, conceptual design of 50 MGD desalination plant, 847

Ferguson, Jack H., dental kit encasement for use on extraterrestrial missions, 9872
Ferguson, James K.:
foreign trade regulations of—
Chile, 4008
Uruguay, 7011
Fernandez-Bravo y Amat, Alberto, relief, 16060
Fernandez-Conde, Augusto J., relief, 15833
Fernandez Marino, Vicente, relief, 17457
Fernandina Beach, Fla., port, 13294
Ferrando, Maria Jordan, *see* Jordan Ferrando, Maria.
Ferrante, F. L., cardiovascular responses of diving and nondiving mammals to apnea, 8214
Ferrero, Edward P., analyses of 38 crude oils from Africa, 10910
Ferri, Esther, radionuclide analysis of large numbers of food and water samples, 12465
Ferris, Eleanor, shopper's guide to U.S. grades for food, 3750
Ferris-Prabhu, Albert V. M., relief, 13095
Ferrites:
laminated ferrite memory, 9393
thin film, vapor deposition by one-step process in vacuum, 15128
Ferroalloys, ores, census of mineral industries, 1963, industry report, 11457
Ferrobacillus ferrooxidans, use in copper extraction from low-grade ore, environmental and nutritional factors, effect, 4795
Ferroelectrics, bolometer measures RF absolute power at submillimeter wavelengths, 6377
Ferromagnetism, *see* Magnetism.
Ferromanganese:
exchange from supplemental stockpile—
law, 17097
report, 17466
Ferrosilicon, mineral industry survey, quarterly, 2973
Ferrous metals:
oxygen determination in standard reference materials 1090, etc., 16714
scrap, use in magnetic roasting of iron ores, 7716
Ferrous molybdate, low-temperature heat capacities and entropies, 10920
Ferrous oxide, reduction of wustite at high temperatures, 4794
Ferrous tungstate, low-temperature heat capacities and entropies, 10920
Fertility, *see* Fecundity.
Fertilization of plants, hand-pollinate yellow-poplar without climbing, 10587
Fertilizers:
chemical and fertilizer mineral mining, census of mineral industries, 1963, industry statistics, 11459
commercial, consumption in U.S., 14161, 16870
development, TVA, 6670
helicopter fertilizing of foothill range, 17694
manure tank, circular concrete, 15453
publications, price list, 1405
situation, 8141
storage shed, 40 ton capacity, 14146
use in U.S., economic position and outlook, 11861
Fetal death, *see* Still-birth.
Feth, J. H., selected references on saline ground-water resources of United States, 2093
Feuer, Rosa, relief, 17409
Fever, *see* names of fevers.
Ffolliott, Peter F.:
evaluating multiproduct potential in standing timber, 4474
inventory system for multiple use evaluations, 7462
FG series, 280–290, 6958, 12741–742, 14289, 15621–622, 17023–26
FHA, *see* Farmers Home Administration—Federal Housing Administration.
FI JCT., Ill., railroad accident, 12070
Fiber stresses, *see* Strains and stresses.
Fiberboard, *see* Pulpboard.
Fiberglass, *see* Glass fibers.
Fibers:
bonded nonwoven fabrics, current industrial reports, 3922
classical, breaking strength of bundle, statistical distribution, 2423
electrically conductive, thermally isolate temperature sensor, 13784
fiber-metal composite materials, 13834
manmade—
census of manufactures, industry report, 3893
competition in Japan, 13355
industry, indexes of output per man-hour, 7673
natural and competing young people's use and appraisal in wearing apparel, 14144
non-glassy inorganic fibers and composites, 15086
plastic plus stainless-steel, make resilient, impermeable material, 2393
refractory ceramics produced by improved process, 9487
synthetic, commodity transportation survey, shipper series, 3909
vegetable, foreign agriculture circulars, 2987
see also names of certain plants, textiles, etc.
Fibrous glass, *see* Glass.
Fichter, W. B., theory for inflated thin-wall cylindrical beams, 12348
Fiduciary, gift, and estate tax returns, 1962, statistics of income, 4570
Field, Barry C., import competition in fruits and vegetables, 16727
Field, Crosby, study of missiles resulting from accidental explosions, manual for investigators, 8304
Field, D. E., submarine topside coatings for application in damp cold weather, 1384
Field army, *see* Army.
Field artillery, *see* Artillery.
Field crops, *see* Crops.
Field employees, *see* Government officials and employees.
Field facility directory, 4361
Field manuals, *see* Army Department.
Field seeds, supply and disappearance, 5175
Fielder, William L., ionic conductivity of solid barium fluoride, 7865
Fife, William P., cardiac output and regional blood flow in anesthetized baboon, 12637
Fighter planes:
F–100, modifications to engines, management of time compliance technical orders, GAO report, 14725
flying at very low altitudes, ground measurements of shock-wave pressure, etc., 12342
Figs, production, use, value, 1964–65 by States, 15379
Fiji Islands, mineral industry, minerals yearbook chapter, 6297
Filament-winding plastics, some effects of curing agent structure upon epoxide plastic physical properties, 2499
Filamentary materials, filamentary composites, studies of mechanics, 13708, 15037
Filaments:
bonded plastic tape use for lining filament-wound fiber-glass cryogenic propellant tanks, 4950
boron, mechanical and physical properties, 4947
low density, high strength high modulus, study, 15041
precision winding of cylindrical composites with shaped glass filaments, 15038
wound composites, microvoids, origin and removal, 2494

Filaments—Continued
wound cylinders—
determining elastic moduli, 1273
loaded in axial compression, determining strength, 13829
wound toroids, use as pneumatic shock absorbers, 15071
Filaments (electric):
lamp automatically switches to new filament on burnout, 6372
Files and filing (documents):
Education Office records handbook, standard filing system, 14557
file organization for large chemical information system, 9554
files maintenance and disposition, DSA manual, 5849
managing current files, records management handbook, subject filing, 13854
Filler wire reels, *see* Reels.
Filling, secondary backfilling of strip-mine areas, 7717
Film libraries, *see* Motion pictures.
Film slides, *see* Filmslides.
Film strips, *see* Filmstrips.
Filming, *see* Photography.
Films (chemical):
film coefficients of heat transfer for helium, 17865
polystyrene, photolysis in vacuum and in air, 2496
Films (coatings):
aluminum thin, self-supported, produced by vacuum deposition process, 15117
cadmium sulfide, high photovoltages in, 9534
dry film lubricant effective at extreme loads, 12298
electrolytic preparation of high dielectric thin films, 4821
gallium alloy, investigated for use as boundary lubricants, 9472
polymer film exhibits thermal and radiation stability, 6369
PTFE-aluminum films serve as neutral density filters 4854
single-crystal semiconductor films grown on foreign substrates, 11019
thin film protective coatings, 1296
thin films as floating liners for fiber-glass cryogenic propellant tanks, 4949
see also Carbon films.
Films (coverings):
conceptual design for squeeze film bearings, 12294
flexural rigidty, techniques for measurement, 7826
Films (photography):
Navy catalog, 11159
Polaroid film produces positive X-ray photo in 10 seconds, 13743
see also Motion pictures.
Filmslides:
different size and format, single projector accommodates, 4853
fire safety slides, list, 14741
neurological and sensory disease, film guide, 13976
see also Filmstrips.
Filmstrips:
aging, selected references, 5262
captioned films for deaf, catalog, 635
copyrighted, 598, 8793, 17604
Library of Congress catalog, 3147
medicine and allied sciences, film reference guide, 13963
neurological and sensory disease, film guide, 13976
Public Health Service, 1966 film catalog, 15299
Filters and filtration:
AFA analytical aerosol filters, USSR study, 10754
air filters gamma spectrometric measurement for recovery of U–235, 8291
Filters and filtration—Continued
centrifugal, industrial plant equipment handbook, 13247
filter pack technique for classifying radioactive aerosols by particle size—
fission products 1963–64, 1381
mathematical considerations, 1382
filter spectroradiometery, data reduction, 1249
human vs filter as data extrapolator in 2-coordinate, sampled-data tracking system, 6543
oxidation-reduction process reduces pore diameters to produce superior filters, 6365
parotid fluid protein-free filtrates, preparation, 8217
PTFE-aluminum films serve as neutral density filters, 4854
signal averaging filter, disclosures, 7921
stainless steel fiber length and orientation prevent migration in fluid filters, 13754
ultrasonic cleaning restores depth-type filters, 13735
see also Band-pass filters—Microwave filters—Radio frequency filters.
Finance:
agricultural review, supplement, 5865
agriculture balance sheet, 15441
assistance programs administered by Health, Education, and Welfare Dept., 14758
impact of 1965 legislation, 4532
Atomic Energy Commission, 1966 report, 16978
Bulgarian system of financing scientific and technical research, 13529
census of business, 1963, selected services, receipts size, 199
city government, 11476
code of Federal regulations, 7400
combined financial statements, 1964, members of Federal Home Loan Bank System, 7362
Communist China, translations, 3597
current monetary and fiscal developments (remarks), 5955
daily statement of Treasury, 2829
DSA manual, 4249, 7260, 13250–251, 17608
export financing, Action Committee report, 7003
family finances, price list, 2519
farmers' financial calculations, and physical measurements, handbook, 16919
Federal expenditures to States and regions, distribution and impact, study, 13213
Federal financial policy (remarks), 5193
financial assistance programs, Small Business Administration, summary, 16823
financial statements—
Columbia River Federal Power System, GAO examination, 16342
Commodity Credit Corporation, GAO examination, 4492, 14381
Export-Import Bank of Washington, GAO examination, 807, 1801
Federal Crop Insurance Corporation, GAO examination, 4065, 4493
Federal Home Loan Banks, GAO examination, 14385, 14722
Federal Housing Administration, GAO examination, 6007, 7065
Federal Prison Industries Bureau, Inc., GAO examination, 4494
form and content, 18090
Government Printing Office, GAO examination 14723
Panama Canal Co., GAO examination, 8982, 10103
Public Housing Administration, GAO examination, 6009
Saint Lawrence Seaway Development Corporation, GAO examination, 14724

Finance—Continued
financial statements—continued
Tennessee Valley Authority, 6671
GAO examination, 4495, 11603
Treasurer of United States, GAO examination, 17706
Veterans Canteen Service, Veterans Administration, GAO examination, 4496
Virgin Islands Corporation, GAO examination, 6008, 7064
financing and crediting social enterprises, Bulgarian study, 13581
financing capital construction, rules, in USSR, 1041
fiscal policy and debt management, 2027
General Accounting Office findings, etc., for improving Government operations, 1965, 11610
Government contingent liabilities and assets reports, report, 17521
government finances, GF series, 3933–34, 6933, 8367, 11476, 12728
Government financial agencies, policies and practices, hearing, 17368
governmental, 1964–65, 12728
joint financial management improvement program, annual report, 8981
management of Federal credit programs in Great Society (remarks), 16882
manufacturing corporations, quarterly report, 3440
Neighborhood Youth Corps sponsors, financial management requirements, 13588
personal, PACAF basic bibliographies, 5322
problems of government financial management (remarks), 1514
Public Roads Bureau, accounting and financial reporting system, need for improvement, GAO report, 12000
publications, price list, 17993
receipts and expenditures of U.S.—
combined statement, 1965—
departmental edition, 3722
document edition, 4052
monthly statement, 3220
receipts, Federal, 1966 and 1967, estimates, 11694
recordkeeping for small stores, 6602
State and local governments, 1964–65, employee-retirement systems, 3934
State finances, 1739
State government, 1964 compendium, correction, 1739
State government, 1965—
compendium, 8367
summary, 6933
statistics, Federal reserve chart book, 2960
historical supplement, 16279
structure of regional farmer cooperatives, 8871
treasury bulletin, 3622
United Nations situation, report and hearings, 10181, 10243
Vietnam, Democratic Republic, 2182
see also Accounts and accounting.—Banks and bankings—Credit—Inflation (finance).
Finance Committee, Senate:
additional staff members and clerical assistants, report, 8736
calendar, 3135
committee prints, 1937–38, 4217, 7210–12, 10340, 11799–800, 13206–207, 16181
comparison between House bill and Senate amdt. to sugar act 1965, amendments, 1939
hearings, 5804, 11801–803, 13208–209, 14480, 16182–185
House-passed bills pending, summary, 10340
Finance Committee, Senate—Continued
reports, 542–543, 551, 4167–69, 4171, 5721, 5755, 5761–68, 5771, 7175–76, 8693, 8728–29, 10296–303, 11750–752, 11769,13132, 13154, 13162, 13182, 16071, 16076, 16129–130, 17500, 17521–524, 17536–537, 17552–553, 17562
summary of social securtiy amendments of 1965, 7209
Finance companies:
consumer credit at consumer finance companies, 2791
insurance premium, license and regulate in D.C.—
law, 8479
report, 8734
sales finance companies, monthly report, 3488
Finance decisions *see* Interstate Commerce Commission.
Financial assistance, *see* Grants-in-aid.
Financial institutions, *see* Banks and banking.
Financial statements, *see* Finance.
Financiamiento de la FHA para, compra y mejoras de la vivienda, 2017
Findikyan, Nurhan, cold stress, parameters, effects mitigation, 82
Fine, Morris M., magnetic roasting of iron ores with ferrous scrap, 7716
Fine arts, *see* Art.
Fine Arts Commission:
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10281
publications, price list, 16787
Finerty, Joseph M., employment and earnings, and monthly report on labor force, 4734
Finger, Harold B., address, Nov. 17, 1965, 166
Finger Lakes, water pollution, control, etc., hearing, 17381
Finite-thrust escape from and capture into circular and elliptic orbits, 16675
Fink, Marvin P., aerodynamic data on large semispan tilting wing, etc., 9516
Finland:
agricultural economy, 17617
aviation, certificates of airworthiness for imported civil glider aircraft, agreement, 5159
labor conditions, 13629
mineral industry, minerals yearbook chapter, 7693, 17842
Finley, Bob, fish go in schools, 4403
Finney County, Kans., soil survey report, 2571
Fins (aircraft):
copper, radiating stainless-steel-clad, two-dimensional heat transfer, 4903
rocket vehicle with thick wedge leading and trailing edges, static aerodynamic characteristics, 4930
straight finned radiators, weight optimization, design procedure, 15143
Fins (cooling):
central fin-tube radiators, comparison of 1- and 2-dimensional heat-transfer calculations, 16698
heat-rejection characteristics of space radiator panels utilizing shared fins, 15189
low-temperature direct-condensing vapor-chamber fin and conducting fin radiators, analysis, 1268
thermostatic, for spacecraft temperature control, design considerations, 10966
Fir:
balsam—
dimension lumber in selected Minnesota markets, 5995
heart rots, 14695

Fir—Continued
Douglas—
bark factors, 10570
110-year-old, thinning response, 10571
seasonal progress of radial growth, 4472
south-central Idaho, initial vegetal development following prescribed burning, 16337
red, determining age of dwarfmistletoe, infections, 17692
subalpine, bleached groundwood, kraft, and sulfite viscose-grade pulp, suitability for pulping, 2075
Fire control, *see* Forest fires.
Fire control (gunnery):
equipment, Federal item identification guides for supply cataloging, supplements, 2940
instructor's guide—
basics of digital computers, 6527
electronics, 17974
Navy, instruction concerning gyroscopes, 6532
introduction, 9587
Navy training course, 12415
trainee's guide—
basic electronics, 5061
basics of digital computers, 6528
basics of magnetic amplifiers, 17973
gyroscopes, 6533
training, 9587
Fire-cured tobacco, *see* Tobacco.
Fire departments:
2d and 3d class postal rates for volunteer fire companies, extend, report, 12943
staffing at contractor-operated installations under supervision of Oak Ridge Operations Office, savings available through reductions, GAO report, 9001
Fire extinguishing agents:
dry chemicals, particle size measurement, 1367
high-expansion foam fire control for records-storage centers, 8285
Fire fighting, *see* Fires.
Fire-fighting apparatus:
Federal item identification guides for supply cataloging, supplements, 2934
maintenance, FAA handbook, 5915
motorized, current industrial reports, 1733
Fire Heart Creek site, archeology, 16827
Fire insurance, *see* Hazard insurance.
Fire Island National Seashore:
general information, 15221
land donations as additions, accept, report, 483
Fire prevention, *see* Fires.
Fire Project, *see* Project Fire (flight reentry program).
Fire protection, *see* Fires.
Fire retardants, *see* Fires.
Firearms:
Federal act, amend, report, 17560
injuries caused by, mandatory reporting in D.C., provide, report, 17287
laws enforced by Alcohol and Tobacco Tax Division, 16380
mail order, interstate traffic, juvenile delinquency investigation, report, 1924
national and Federal acts, text, 14778
small arms barrels, radiographic and visual soundness requirements for cobalt-chromium alloy liners, military standard, 11853
small arms ranges, Air Force manual, 16944
Firebrats, how to control, 5292
Firefighting vehicles, gas turbine powered MB–5 aircraft firefighting and rescue vehicle, 6539
Firemen (firefighters):
Day of Recognition, designate May 4 of each year, law, 10061
District of Columbia—
examination announcement, 11498
include members in Police Department band, report, 15872
retirement benefits for older totally disabled, report, 15853
salaries, increase—
hearings, 10237, 10338
reports, 15853, 16139, 17312
employment outlook, 9239
Federal employees, premium compensation, correction of inequities—
hearing, 17595
report, 12944
Government, reduce time in standby status, hearing, 11676
Firemen (stokers):
Navy training course, 11148
Fireplaces:
and chimneys, general information, 32
wood, market, in urban area of Connecticut, 17700
Fires:
control elements, maritime safety data, 7654
doors as barriers, 7909
earthquake of Mar. 27, 1964, at Whittier, Alaska, effects, 4525
Experimental Hall, Cambridge Electron Accelerator accident, July 5, 1965, investigation, report, 6865
Federal fire experience, 16353
fire defense in United States, national fire coordination study, 10553
fire prevention in hospitals, 11188
fire retardant viscosity measured by modified Marsh funnel, 8956
firefighting and rescue operations, Army technical manual, 15515
firefighting exercises manual, 1345
high expansion foam for fire suppression, 13388
hydrogen—
detection system features sharp discrimination, 13800
infrared television used to detect, 13798
industrial fire safety today, 16352
municipal fire service, future, 16352
nuclear, defending United States from, national fire coordination study, 16320
prevention, and maintenance of fire protection equipment, FAA handbook, 5915
prevention and protection facilities, Army technical manual, 1652
retardants, influence of moisture on effectiveness, 5994
safety and fire protection bulletins, 2620 8110, 8304, 14064
Mission Safety-70 Week, 18133
safety, construction projects (talk), 14742
safety programs, films and slides, list, 14741
shipyard hazards, maritime safety data, 16522
slash, variation in vegetation following, near Oakridge, Oreg., 2062
systems approach to fire protection, 13389
see also Forest fires—Mine fires.
Firewood, *see* Wood.
Firms, *see* Business.
First aid, standard training course, 7967
First step on long journey, Congressional presentation, 617
First work of these times, description and analysis of elementary and secondary education act, 643
First work of these times, report to the people on education, 7308
Fiscal policy, *see* Finance.
Fiscus, Clifford H., pelagic fur seal investigations, 5964

Fish and fisheries:
acclimatization of fish and food organisms in seas of USSR, 2223
Alabama landings, 2672, 13339
Alaska, 1964, annual summary, 4401
anadromous and Great Lakes fish, program for conservation, development, etc., law, 406
bait shrimp, Tampa Bay, Fla., fishery economics, 781
bioacoustics of fish, USSR study, 12098
Biological Laboratory, Honolulu, progress in 1964–65, activities, 8939
biological-statistical census of species entering fisheries in Cape Canaveral area, 779
Boston large-trawler labor force, economic study, 10526
California landings, 2724
canned fishery products, annual summaries, 4399, 7431
central Asia and Kazakhstan fishery resources, conference, 12163
Chesapeake fisheries, annual summary, 2035
Chile fisheries, 7433
code of Federal regulations, 10508
commercial fisheries—
census, 1963, number of operators and fishing vessels, employment and gross receipts, etc., 8327
census 1963, publication program, 1708
Great Lakes, 5963
commercial fisheries abstracts, 2762
commercial fisheries review, 2763
separates, 747–750, 4405–10, 7435
conservation notes, 10529–530, 17675
conservation, protection, and propagation of endangered native species of fish—
hearing, 7206
reports, 14459, 17265
control measures, Northwest Atlantic fisheries convention of 1949, protocols, 13091
cooperative fishery units, annual reports, 766, 16311
copepod crustaceans parasitic on elasmobranch fishes of Hawaiian Islands, 9567
culture, classification, Library of Congress, 1100
current fishery statistics, CFS series, 738–745, 2034–35, 2672, 2724,2976–77, 2980, 3008, 3022, 3029, 3171, 3174, 3185–86, 3194, 3205, 3260, 3267, 3276, 3480, 3516, 3522, 3575, 3683, 4399–4401, 5961–62, 7430–32, 8934–38, 10518–522, 13334–341, 16294–296, 17672–673
Delta National Wildlife Refuge list, 16310
distribution of fishes in U.S. streams tributary to Lake Superior, 780
electronic method of measuring hematocrits, evaluation, 14674
establish fishery zone—
hearings, 13053, 13203
law, 17141
reports, 11774, 15931
exploratory fishing, 1964 report, 10524
fish and wildlife coordination act, amend, hearings, 13053
fish as source of human poisoning, USSR study, 16486
fish concentration density determined by hydroacoustics, USSR study, 17790
fish control investigations, 11977, 14674
fish go in schools, use in school lunches, 4403
fish passage reports—
Bonneville, The Dalles, McNary and Ice Harbor Dams, 667, 11888
Rock Island Dam, Columbia River, Wash., 17679
fish reserves in reservoirs of central Asia and Kazakhstan, USSR conference, 10787
Fish and fisheries—Continued
fish toxicity in nitrosalicylanilides and related compounds, chemical structure relation, 14674
fisheries activities behind Iron Curtain, report of U.S. congressional delegation, report, 12988
fisheries of North America, conference, addresses and panel discussions, 17674
fishery and oceanography translations (periodical), 2978
fishery associations in U.S., list, 11973
fishery bulletins, 7436, 13343
fishery industrial research, 751, 10531
fishery leaflets, 752–754, 2039–40, 4412, 10532, 11972–973, 13344, 14653–655
fishery marketing development series 13345–346, 14656, 16299
Fishery-Oceanography Center, La Jolla, Calif., research facilities, 2038
fishery products—
imports and exports, 4400
industrial, summaries, 738, 7430
irradiated-pasteurized, study, 15539
manufactured, 1964, annual summary, 5962
wholesale dealers, list—
Alabama, 773
Iowa, 772
Maryland, 768
Minnesota, 770
Nebraska, Mississippi River and tributaries, 774
North Dakota, 771
South Dakota, 776
Texas, 775
Wisconsin, 769, 2046
fishery statistics, 14678
fishing convention, law of the sea, 12527
fishing in national park system, general information, 16736
Florida landings, 2980, 10522
frozen fish, monthly report, preliminary, 3007
frozen fishery products, 3008, 10518
Georgia landings, 3022, 16296
Great Lakes—
convention, amending agreement with Canada, 15999
Federal research, annotated bibliography, 11978
fisheries, 1964 annual summary, 2034
Gulf fisheries, 1964 annual summary, 744
hatcheries, cost-sharing arrangements with Oregon and Commercial Fisheries Bureau, GAO review, 6023
hatcheries, list, 753
Hawaii, fisheries, annual summaries, 745, 13341
Hempstead, South Oyster Bay coastal wetlands, preserves, etc., hearings, 14432
Japanese fisheries, 10523
Louisiana landings, 3171
Maine landings, 3174, 10520
marine and fresh-water resources of U.S. authorize survey—
hearings, 11795, 17390
report, 10320
Marshall and Marianas Islands fishes, 7937
Maryland landings, 3185, 13338
Massachusetts landings, 3186
by gear and subarea, 1965 summary, 17673
by ports, 1965 summary, 17672
Michigan, Ohio and Wisconsin landings, 3194, 16294
miscellaneous legislation, hearings, 13053, 17390
Mississippi landings, 3205, 13340
Mississippi River fisheries, 1964, annual summary, 8938
mode of uplift on McMurdo Ice Shelf of fish moraines, 5344
motion pictures, 14655
national survey of fishing, 16312
New England, fisheries, summary, 743

Fish and fisheries—Continued
New Jersey landings, 3260, 10519
New York landings, 3267, 8934
North Carolina landings, 3276, 13335
northwest Atlantic, international convention of 1949, protocols—
report, 13091
text, 13080
Norway fisheries, 7434
Pacific Coast fisheries, 1964, annual summary, 5961
parasites of freshwater fish, 11968–970, 14652
pasteurization of fishery products with gamma rays from cobalt-60 source, 4407
pesticides, use and effects, research findings, 4411
pollution-caused fish kills, 13332
progressive fish-culturist, 3423
protein concentrate, experiment and demonstration plants—
hearings, 16100, 17390
reports, 15941, 16080, 17325
protozoa, Ichthyophthirius multifiliis, 11968
publications, price list, 16785
recipes—
Florida fish recipes, 14656
from Great Lakes, 746
seafood, heirloom recipes to treasure, 16299
research report, 17676
reservoirs for fish-rice farming, 4402
resource status reports, 765–766
Rhode Island landings, 3480, 8935–36
shrimp fishery of southern United States, 14654
shrimp landings, 1965, annual summary, 10521
South Carolina landings, 3522, 13336
special scientific reports, fisheries series, 779–781, 2047, 4425–26, 5964–65, 7441–42, 11978, 13348–349, 14675, 16313, 17678–679
sport and commercial, estuarine areas, preserve, etc.—
hearings, 14432
report, 15939
sport fishery abstracts, 3531
sport fishery research, progress, 10537
statistical digest, 14678
Texas landings, 3575, 13337
United States, 1964 annual summary, 8937
USSR—
bibliographic guide on fisheries and related services, 10706
fishing industry plan for 1966–70, 2148
ichthyological research, 17753
Virginia landings, 3683, 16295
water resource projects, uniform policies and cost allocation, report, 1832
see also Diseases of fish—*also* headings beginning Fish—Fishing—*also* names or classes of fish.
Fish and Wildlife Service:
circulars, 746, 2036–38, 4402–4, 7433–34, 8939, 10523–528, 11965–967, 13342, 14651, 16297–298, 17674
fishery bulletins, 7436, 13343
fishery marketing development series, 13345–346, 14656, 16299
historical statistics H.S. series, 755–758
press releases, 3371
publications printed and duplicated, monthly list, 3216
refuge leaflets, 759–764, 2041–44, 4413–24, 7437–38, 8941–43, 10534–536, 11974–976, 13347, 14657–672, 16300–310
regulatory announcement, 14673
SL series, 768–778, 2046
special scientific reports—
fisheries series, 779–781, 2047, 4425–26, 5964–65, 7441–42, 11978, 13348–349, 14675, 16313, 17678–679
wildlife series, 7443, 10538–540, 11979, 14676–677, 16314
Fish bait, *see* Bait.
Fish culture, *see* Fish and fisheries
Fish disease leaflet FDL–(series), 8940, 11968–971, 14652
Fish hatcheries, *see* Fish and fisheries.
Fish hooks, *see* Hooks.
Fish meal:
and scrap—
imports, 1937–64, 739
production, 1929–64, 740
production—
annual summary, 13334
monthly reports, 2976
Fish nets, castnets constructed of machine-made netting, 2039
Fish oil:
foreign trade, 1925–64, 741
production—
annual summary, 1334
monthly reports, 2976
Fish sticks:
and portions—
annual summary, 7432
current fishery statistics, 2977
Fish tuberculosis, *see* Tuberculosis in animals.
Fisher, Gail F., arthritis source book, 13958
Fisheries, *see* Fish and fisheries.
Fishermen's and fish shore workers' unions:
in United States, list, 11972
rights in sale of fish, etc., hearings, 17390
Fishery Management Services Division:
cooperative fishery units, report, 766
report, 765
Fishery marketing development series, 13345–346, 14656, 16299
Fishery-Oceanography Center, La Jolla, Calif., research facilities, 2038
Fishery products, *see* Fish and fisheries.
Fishery Services Division, cooperative fishery units, annual report, 16311
Fishes, *see* Fish and fisheries.
Fishing, *see* Fish and fisheries.
Fishing gear:
aluminum crimping sleeve prevents hook damage by electrolysis, 4405
loans for vessels and gear, 754
research report, 10524
shark, historical review, 10526
see also Electric fishing device.
Fishing tackle, *see* Fishing gear.
Fishing vessels:
and number of operators, employment and gross receipts, etc., census of commercial fisheries, 8327
loans for vessels and gear, 754
Fishman, Alan M., gamma spectrometric measurement of U–235 in absolute air filters, etc., 8291
Fishman, Marvin J., analysis of metals in water by atomic absorption, 17726
Fishmeal, *see* Fish meal.
Fisk, Allen L., Missouri Basin Inter-Agency Committee minutes of meetings, 1174, 9388, 10935, 16588
Fission products, airborne during 1963–64, size distribution, 1381
Fissionable materials, maintenance of reactor safety, etc., USSR study, 13541
Fitting multi-component exponential decay curves by digital computer, 3793
Fittings (auxiliary parts):
Federal item identification guides for supply cataloging, supplements, 2934
tetrafluorethylene hose, etc., classification of defects, military standard, 11851
FitzSimmons, V. G.:
factors influencing life and performance reliability of high-precision potentiometers, 1374
lubricating ball bearings, 12435
Fitzsimons General Hospital, Medical Research and Nutrition Laboratory, report, 14235

Fixtures (for offices, etc.) :
and miscellaneous manufactured products, commodity transportation survey, shipper series, 216
inflatable holding fixture permits X-rays to be taken of inner weld areas, 13762
public building, office, and store fixtures, census of manufactures, 1963, industry report, 6899
Flag Week, *see* National Flag Week.
Flags :
foreign flags, code flags and pennants, recognition identification guide, 13901
our flag, story, etc., print additional copies as H. doc., reports, 10189, 16096
U.S., around Washington Monument, raising and lowering ceremonies, provide, report, 12939
United States, display at Lexington, Mass., law, 436
Flame photometry, *see* Photometry.
Flames :
detector rods, mounting facilitates removal and installation, 7803
research and technologic work, 15012
spectrophotometry system for biologic calcium analysis, 5336
Flaming Gorge National Recreation Area, general information, 17956
Flammability, *see* Inflammable materials.
Flammable gases, *see* Gases.
Flammarion, AIC 77 A, lunar chart, 89
Flanagan, Edward J., Father :
memorial in D.C. or environs, authorize—law, 1787
reports, 492, 1925
Flanges :
assembly, pressure-welded, provides leaktight seal at reduced bolt loads, 11039
external linkeage tie permits reduction in thickness, 13761
fastener providing for bolt misalignment and quick release, 12316
Flannelly, William G., analytical research on synchronous gyroscopic vibration absorber, 4806
Flares, *see* Solar flares.
Flash lights, *see* Flashlights.
Flashers, high-intensity, for close-in photography, 7776
Flashlight cases, current industrial reports, 254
Flashlights, use as infrared source, 7768
Flat Rock, Ala., coal resources of area, Jackson County, Ala., 13680
Flat Tops primitive area, mineral resources, 13403
Flathead Indians :
Confederated Salish and Kootenai Tribes of Flathead Reservation, lands held in trust for—
law, 17093
reports, 10311, 12932
Flathead Lake, damsites on Flathead River, geology, 2105
Flathead River, geology of damsites, mouth to Flathead Lake, 2105
Flatley, Thomas W., equilibrium shape of array of long elastic structural members in circular orbit, 7820
Flax, Lawrence :
magnetic field outside perfect rectangular conductors, 15177
monotonic magnetostriction for nonferromagnetic materials, 16674
FLC, *see* Federal Library Committee.
Fleet Marine Force manual FMFM series, 2309, 4743–44, 6279, 9350–51, 10894, 13654–655, 16547–548, 17826
Fleischer, Michael, data of geochemistry, 4520
Fleming, Robert V., reappointment, report, 1919
Flescher, H. L., effects of electron radiation on unijunction transistors, 13714
Flewellen, William C., jr., selling and servicing household appliances and radio–TV, 12503
Flexible arms provide constant force for pressure switch calibration, 13752
Flexible drive allows blind machining and welding in hard-to-reach areas, 17899
Flexible fastener effect airtight material closure, 13740
Flexural fatigue machine for high-temperature operation at resonance in vacuum, 1368
Flexural vibrations of conical shells with free edges, 6335
Flies :
European pine sawfly, description, control, etc., 2057
hemlock sawfly, mortality of overwintering eggs, 13359
horn flies on cattle, how to control, 1587
house, how to control, 3756
introduced pine sawfly, 7454
Nearctic Trichopters in Museum of Comparative Zoology, notes, 6497
stem sawflies of economic importance in grain crops in U.S., 5298
Flight :
aerospace safety (periodical), 2645
aviation and its flight environment (address), 5892
dynamics, USSR studies, 9151
East-West, phase shifts of human circadian system and performance deficit during periods of transitions, 8308
flight and ground tests, XV–9A hot cycle research aircraft, 8272
flight-measured ground effect on low-aspect-ratio ogee wing, compared with wind-tunnel results, 11058
high-altitude and entry flight control experience with X–15 airplane, 7893
in-flight vibration analysis, 15196
information manual, international, 3077, 14199
amendments, 103, 3803, 16952
information publications, dates of latest editions, 2841
instructors—
airplane, examination guide, 4429
certification, Federal aviation regulations, 11909–911, 14602, 16260
investigation, V/STOL aircraft on-off control visual conditions, 11063
MAC flyer (periodical), 3172
maneuver test program, UH–1 compound helicopter high performance, 8273
measurements of boundary-layer noise on X–15, 7877
North-South, phase shifts of human circadian system and performance deficit during periods of transition, 9936
parameters, acoustic displays, 13710
parameters and vehicle performance for Project Fire flight II, 15176
performance estimated with closed-form approximations to equations of motion, 4984
physician flight accidents, 15559
planetary flight handbook, 9445
private pilot's handbook of aeronautical knowledge, 11983
standards career planning FAA handbook, 2003
test guide—
helicopter pilot, 2010
multiengine airplane class or type rating, 11981
private pilot, single-engine airplane, 16317
test program, compound helicopter maneuver capability, 8231
tests, rotary wing aircraft, progress reports, 1634, 3813, 5342–43, 6827, 9885
training handbook, 5923
unsteady, analytical study of dynamics of aircraft, 3837

Flight—Continued
West-East, phase shifts of human circadian system and performance deficit during periods of transition, 11446
see also Aircraft—Astronautics—Instrument flying.
Flight crews:
aircrew personnel, H-response in electroencephalograms, 3799
aircrew selection, perceptual-psychomotor tests, historical review and advanced concepts, 14184
factors affecting aircrew morale, 15490
flight crewmember certificates, Federal aviation regulations, change, 4359, 10464
members other than pilots, certification, Federal aviation regulations, 2005, 11912, 13308, 14603, 16261
nomenclature and abbreviations in aircrew stations, military standard, 8814
supersonic transport, potential roles, implictaions for flight deck, 15064, 17872
Flight deck, *see* Aircraft.
Flight engineers, certificates and training courses, Federal aviation regulations, 2005, 11912, 13308, 14603, 16261
Flight navigators, *see* Aviators.
Flight recorders, installation requirements and performance standards, Federal aviation regulations, change, 4355
Flight simulators:
F–101/F–106 flight simulator flashblindness experiment, 5331
use to determine pilot opinion of trim changes for STOL airplanes, 6433
Flight surgeons, *see* Surgeons.
Flint, Helen M., guide specifications for positions in aging, 1571
Flint, Oliver S., jr., notes on certian Nearctic Trichoptera in Museum of Comparative Zoology, 6497
Flint, Mich., commodity transportation survey, production area series, 9955
Flint Hills, Kansas and Oklahoma, bluestem and Osage pasture report, 15375
Floating device aligns blind connections, 4844
Flood, Daniel F., Isthmian Canal policy, etc. (addresses), print additional copies, reports, 13004, 14462
Flood control, *see* Floods—*also* names of certain rivers.
Floods:
California and Nevada, Jan.–Feb. 1963, 10651
Colorado and Kansas, June 1965, subcommittee report, 11681
control projects, prohibits certain fees—
hearings, 10263
report, 10154
control, rivers and harbors, and multipurpose projects, public workers authorizations—
hearings, 17597
law, 400
reports, 17276, 17533
print additional copies, reports, 10197, 17470
control, unified national program for managing losses, report by Task Force, 15785
damage prevention, indexed bibliography, 15389
disaster areas, permit farmers to comply with acreage reduction agreements, report, 1829
Federal financial assistance to victims, insurance and other programs, reports, 15987, 16177
floods of 1963 (series), 10651
floods of 1964 (series), 831
homes and farms, first aid, 3743
North Carolina, probable magnitude and frequency, 10637
Floods—Continued
routing, numerical techniques for small watershed, 8125
salmon spawning stream, effects, 13358
storage flood routing without coefficients, 14102
United States, magnitude and frequency—
Colorado River basin, 6038
Great Basin, 7489
United States, summary, 830
watershed protection and flood prevention act, amend—
hearings, 4118
law, 1788
reports, 495, 556
see also names of rivers, etc.
Floor covering mills, census of manufactures, industry report, 1703
Floor coverings:
installers, employment outlook, 9240
resilient, nontextile, sampling and testing, Federal test method standard, 14645
Floors and flooring:
feeding floor for 200 pigs, 11361
flooring from low-grade hardwood logs, 10566
Flora, Donald F., ponderosa pine dwarfmistletoe control, 17704
Flora, *see* Plants.
Florida:
area measurement report, 1696
census of manufactures, 1963, manufacturing plants, location by county, industry and employment size, 14258
central and southern, flood-control project, designate W. P. Franklin Lock and Control Structure, report, 16149
chemical processing of phosphate rock slime, 17853
citrus cooperatives, pooling following 1962 freeze, 14142
climatological data, 2751
congressional districts, 90th Congress, 15609
county business patterns, 3912
creep feeding beef calves, effects on weight and market grade, 3767
eastern, coastal warning facilities chart, 7339
electric rate book, 10482
grapefruit—
exported to oversea markets, factors affecting quality, 6758
packaged and labeled, sales test, 10414
Lake Soil Conservation District, ponds irrigate citrus groves and provide recreation (colored poster), 9668
landings, fish and shellfish, 2980, 10522
life tables, 18017
mangoes, ripening and storage, 47
Middle River Canal (C–13) area, engineer report—
departmental edition, 13292
document edition, 13067
northwest coast hurricane survey, engineer report—
departmental edition, 14572
document edition, 14384
postal map, 13929
precipitation data, hourly, 3045
properties acquired under VA loan guaranty program, purchase of title insurance, GAO review, 12004
Southeast hurricane disaster relief act of 1965—
hearing, 527
law, 439
report, 554
women workers, 11332
Florida fish recipes, 14656
Florida quadrangle, Puerto Rico, geology, 13399
Florists, retail industry, 1964, profile, 51

Flotation:
Boule, mechanism on water and other liquids, 16375
froth—
density and pulp flow rates, radioactive techniques for continuously measuring, 17864
reclaiming magnetite in dense-medium circuits, 13697
phosphate samples, Meade Peak, Idaho, studies, 9374
pilot plant, nonmagnetic taconite and semitaconite, 6313
selective, of mica from Georgia pegmatites, 16575
stability characteristics of right-circular-conic frustum, 7845
USSR studies, 4693
Flounders:
radiation-pasteurization processes, 11437
summer Paralichtys dentatus (Linneaeus) length-weight relation, 14675
Flour:
domestic wheat flour bulletin, 2863
export wheat flour—
bulletin, 2899
port bulletin, 2900
price bulletin, 2901
Flour mills:
milling industry, organization and competion, 16729
products, current industrial reports, 2817
Flow:
about axisymmetric blunt body at angle of attack, direct method for calculation, 10951
axial flow pump rotor with blade tip diffusion factor of 0.66, blade element performance, 15191
blunt axisymmetric bodies in supersonic spherical source flow, numerical solutions, 7891
brazing retort manifold design concept may minimize air contamination and enhance uniform gas flow, 15101
chute spillway at Fort Randall Dam, 10443
coaxial, dissimilar gases, effects of momentum buffer region, 2424
conditions on fuselage of X–15 airplane and model, 11069
deterimnation of local conditions at Mach nos. 3 to 6, calibration of conical pressure probes, 1257
diaphragm valve for corrosive and high temperature fluid control, 15096
disturbances in rocket propellant feed systems, distributed parameter analysis, 13833
electrons through gas between plane parallel electrodes, 13825
expansion tube, using unheated hydrogen driver, performance, 11056
field survey, etc., in wake of X–15 airplane model, 6450
fields about delta and double-delta wings at low speeds, 15040
flow and pressure field analysis of parallel groove geometry for imcompressible fluid, etc., 15201
fluid—
cavitation, effects of pipe bends, 11021
flexible fastener effects airtight closure, 13740
free-molecule flow with surface diffusion through cylindrical tubes, 4962
gas, concept for passive system to control independently of temperature, 13778
heat flow problems, computer program solves wide variety, 16627
high pressure cryogenic liquid flow, sight assembly for easy observation, 15124
higher parotid fluid flow rate, its relationship to increased caries resistance, 9866
Flow—Continued
hypersonic—
leading edge bluntness and ramp deflection angle effects on laminar boundary layer separation, 6454
over flared bodies at incidence, 4958
interaction of 2-dimensional jet with parallel flow, 15522
jet, effect on refraction of sound, 10960
laminar—
dispersion in capillaries and counterflow transport, 851
heat transfer in arc-heated nitrogen streams, effect of discontinuities, 15198
hydrogen gas flowing in heated tube, instability from large increases of temperature, 9514
liquid in long line, attenuation of sinusoidal perturbations superimposed on, 1265
low-flow characteristics of streams in Mississippi embayment in Arkansas, Louisiana, and Texas, 10641
mass-flow rates for semicircular open-nose inlet, 7830
mass-flow ratio for inlets utilizing right circular cones, charts, 11061
matching flow characteristics of standard shutoff valves elminates need for custom fabricated valves, 16638
nonequilibrium channel flow of multicomponent gaseous mixture in near-equilibrium region, computing, 6460
nonequilibrium expansions of reacting gas mixtures, computer program for numerical solution, 10943
nonequilibrium hypersonic—
nitrogen over wedge, effects of vibration-dissociation coupling models, 13828
problems, application of Lax's finite-difference method, 7897
non-isoenergetic turbulent Prandtl number jet mixing between two compressible streams at constant pressure, 9397
nonsteady liquid and gas, with heat addition and shock perturbations, 17931
nonviscous liquid flowing in long line with distributed leakage, attention of sinusoidal disturbances, 15171
nonwetting, condensing, mercury vapor in constant-diameter tube in 1-g and zero-gravity environments, pressure-drop investigation, errata, 15133
nozzle critical flow characteristics of sodium vapor, 4931
open-channel laboratory studies (series), 825
over blunt body at angle of attack, inverse technique, 9419
parallel, role of conductivity in hydromagnetic stability, 2428
properties of powdered coal-water slurries, 2352
radial-inflow turbine, designed for Brayton-cycle space power system, cold performance evaluation, 4977
radiative interactions between absorbing-emitting and flowing media with internal energy generation, 15197
resistance in simulated irrigation borders and furrows, 13
separated—
heat transfer at Mach no. 6.0, 1255
induced by shock wave-boundary layer interaction, analytical study, 17875
shock-induced, wind-tunnel predictions correlated with flight results, 16661
stratified, Taylor instability, 16596
streamlines in continuous flow, 2448
streamlines in steady flow, 12374
streams, low-flow characteristics in Mississippi embayment in northern Arkansas and Missouri, 6032
studies of flow in alluvial channels (series), 4526

Flow—Continued
supersonic—
laminar boundary layer on cone with uniform mass transfer, 9414
linearized, about pointed bodies of revolution, analysis by method of characteristics, 16659
phenomena in conical nozzles, analysis by method of characteristics, 15164
skin friction, evaluation and reduction, 16668
turbulent boundary layer perturbed by steps and shock waves, spectra and space-time correlations of fluctuating pressures at wall beneath, 10954
swirl and duct, concentration profile establishment of binary gas mixture, 9394
system proportions fluid-flow in response to demand signals, 7767
three-dimensional, ideal gas past smooth bodies, 11083
through-flow solution for axial-flow turbomachine blade rows, 4820
transient, hydrogen in heated passages in laminar-turbulent transition region, analysis, 15200
turbine-coolant, effect on Brayton-cycle space-power system performance, 12354
turbulent flow of liquids, USSR study, 16442
turbulent, heat transfer in smooth tubes for reacting N_2O_4–NO_2 system, 4964
turbulent shear, of dilute aqueous CMC solutions, 6343
two-dimensional turbulent fields, calculation, 9404
velocity measurements in Langley hypersonic arc tunnel, 7843
vertical, buoyance effects on critical heat flux of forced convective boiling, 16707
vortex, and erosion in rocket nozzles due to warm-gas injection for thrust vector control, 4971
weak locally homogeneous turbulence in idealized flow through cone, 16679
Flow charts, Fortron program flowchart is automatically produced, 6388
Flow of funds seasonally adjusted, 5956
Flow of funds, unadjusted, 7419
Flow of water, *see* Hydraulics.
Flowcharts, *see* Flow charts.
Flowers:
color inheritance in diploid and tetraploid alfalfa, reevaluation, 6783
cut, 1964 and 1965, production and sales, 8089
growing perennials, 14138
Flowmeters:
measures low gas-flow rates, 4871
ocean wave direction gate, 8856
optical output enhances accuracy, 4888
volumetric system calibrates meters for large flow rates, 1204
wide-range instrument monitors flow rates of chemically active fluids, 9496
Floyd, Hilton M., castnets constructed of machine-made netting, 2039
Flue-cured tobacco, *see* Tobacco.
Fluent handling material, *see* Handling equipment.
Fluhr, F. R.:
IFF active readout control and display system, 1370
polar video gating of radar and IFF displays using cartesian control, 12441
Fluid amplifiers:
binary, solves stability and load problems, 10990
digital integrator, development, 6329
jet, with reduced receiver-interaction-region coupling, design, 16701
Fluid flow, *see* Flow.
Fluid mechanics, *see* Hydromechanics.
Fluid power systems equipment, shipments and end use, 8317
Fluidization, lunar conditions, experimental study, 17881
Fluids:
chemically active, wide-range instrument monitors flow rates, 9496
close fluid system without moving parts controls temperature, 1207
conducting, inductive system detects level, 15122
density measured with 3-dimensional wire-mesh capacitor systems, 4874
diaphragm valve for corrosive and high temperature flow control, 15096
filters, stainless steel fiber length and orientation prevent contamination, 13754
incompressible, flow and pressure field analysis of parallel groove geometry, 15201
sensor detects hydrocarbon oil contaminants in fluid lines, 6394
shock-operated valve would automatically protect fluid systems, 13770
Flukes:
Trematoda and trematode diseases, index catalog, 9794
Trematoda, index catalog, 9793
Flumes:
experiments, 1956–61, alluvial channel data, summary, 13407
prefabricated, for gaging ephemeral streams, 4451
Fluor Corporation, Ltd., conceptual design of 50 MGD desalination plant, 846
Fluorescence:
fluorescent products in urine of rats exposed to ionizing radiation, study, 8212
paramagnetic materials, testing for cracks, East German study, 4682
Fluorescent lamps, *see* Electric lamps.
Fluoridation, when it comes to fluoridation, readiness is all, 12491
Fluorides:
binary mixtures, density and molar volumes, 16581
coatings make effective lubricants in molten sodium environment, 4842
fused-fluoride electrowinning of thorium-base alloys, 10927
see also names of fluorides.
Fluorination, of iron, kinetics, 15180
Fluorine:
and compounds, rocket fuel oxidizers, USSR study, 16473
and fluorine-oxygen mixtures, compatibility with polymeric materials, 12340
and fluorine-oxygen mixtures spilled on various materials, reaction characteristics, 7816
atomic, in thermally ionized air, electron attachment to, 12274
hydrogen-fluorine propellant system, comparison of experimental and kinetically limited theoretical performance, 15195
Fluorochemicals, surface chemistry, 5073
Fluorspar:
acid grade, disposal from national stockpile—
hearing, 10325
law, 10067
reports, 8581, 8750
disposal from stockpile, hearing, 570
metallurgical grade, exchange from national stockpile—
law, 17097
report, 17466
mineral industry survey, quarterly, 2982
minerals yearbook chapter, 17836
Flutter (aircraft):
corrugation-stiffened and unstiffened panels, experimental results, 7839
delta-planform surfaces, effects of leading-edge sweep at Mach number of 15.4, errata, 15131
Mach 3 of thermally stressed panels and comparison with theory for panels with edge rotational restraint, 13817

Flutter (aircraft)—Continued
multiple streamwise bay rectangular panels at low supersonic Mach number, 15050
new approach to explanation, 4906
orthotropic panels—
effects of side-edge boundary conditions and transverse shear stiffnesses, 7840
exposed to high supersonic stream, theoretical analysis, 13844
panel, interstage adapter on Atlas-Centaur AC-2, AC-3, and AC-4 vehicles, 1240
supersonic—
flat rectangular orthotropic panels elastically restrained against edge rotation, 13819
isotropic sandwich panels, 7818
variable-sweep-wing airplane at Mach numbers up to 3.0, 13820
Fluvial sediment in Little Arkansas River basin, Kansas, 14754
Flux:
aluminum core structures brazed without use of flux, 13795
averaging devices for infrared, 2455
Flux (neutron), *see* Neutrons.
Fly, deceased Lower Brule Indian allottee, relief of heirs and devisees, 5630, 8451
Flyers, *see* Aviators.
Flying, *see* Flight—Instrument flying.
Flying Tiger Line, Inc.:
accident, 11485
dedication of new world headquarters (remarks), 6949
FM (radio), *see* Radio frequency modulation.
FMC, *see* Federal Maritime Commission.
FMC SP series, 700–702, 4378, 5938–39, 7369–71, 8901–2, 10476–477, 14633–634, 17654
FNMA, *see* Federal National Mortgage Association.
Foam:
foam-filled fabric structure, stiffness properties, 7825
high-expansion—
fire control for records-storage centers, 8285
for fire suppression, 13388
urethane, fire hazard in mines, 12261
Fobes, Eugene W., pulpwood chip production and markets in Lake States, 14701
Focal infection, *see* Infection.
Focus on clean water, 8932
Focus resources in school health services, 18004
Focusing, infinite depth of focus, detection in homogeneous visual field, 2490
Fog:
methods to modify, USSR study, 14949
project for drops, investigation of warm fog properties and fog modification concepts, 4823
warm, dissipation by helicopter-induced air exchange over Thule AB, Greenland, experiments, 118
Fog signals:
Naval Oceanographic Office, lists—
Baltic Sea with Kattegat, etc., 1338, 6523, 9584, 16747
British Isles, etc., 2482, 7959, 12407, 16746
Europe and Africa, west coasts, etc., 5056, 7958, 13897
Greenland, etc., 13894, 15237
North and South America—
east coasts, etc., 5055, 9581
west coasts, etc., 1337, 6522, 9582, 13895
Norway, etc., 2483, 7960, 12408
Pacific Ocean, western, etc., 2481, 9583, 13896, 17970
Fogel, Lawrence J., adaption of evolutionary programming to prediction of solar flares, 9396
Foils, *see* Aluminum foil—Copper foil.
Foley, Eugene P.:
addresses, etc.—
Oct. 21, 1965, 323
Nov. 5, 1965, 319
Nov. 18, 1965, 321
Nov. 23, 1965, 320
Dec. 8, 1965, 322
Dec. 9, 1965, 1767
Dec. 29, 1965, 1766
Mar. 14, 1966, 5549
Mar. 15, 1966, 5555
Apr. 16, 1966, 8442
Apr. 23, 1966, 10010
Apr. 27, 1966, 8412, 8414
Apr. 29, 1966, 8413
May 10, 1966, 8415
May 20, 1966, 10011
June 7, 1966, 12795
Sept. 12, 1966, 15640
Oct. 11, 1966, 15639
Foley, W. D., optical-inertia space sextant for advanced space navigation system, 10964
Foliage, *see* Leaves.
Folklore:
Turkmen, anti-religious motifs, 13510
use in anti-religious education of Russian language students, 7581
Folkman, William S.:
children-with-matches fires in Angeles National Forest area, 17695
modifying communicative effectiveness of fire prevention signs, 17691
motorists' knowledge of no smoking ordinance in southern California, 2066
residents of Butte County, Calif., their knowledge and attitudes regarding forest fire prevention, 8976
signing for no smoking ordinance in southern California, 2065
Follmer, William C., radiation-resistant device phenomena, 6338
Folly Beach, S.C.:
hurricane survey, engineer report—
departmental edition, 668
document edition, 465
Fong, Kock Kong, relief, 5743, 8452
Fontana, Anthony, photovoltaic solar sensor for use in spacecraft orientation control systems, 6447
Food:
adjusting food-population imbalances (address), 9834
advertising expenditures by corporations marketing, 624
Army food service, rations, packets, and supplements, pamphlet, 14214
around world, current food situation, 7288
assistance policy and agricultural development to avert world famine (speech), 14160
assistance policy to win war on hunger (address), 14134
buses, standards, handbook, 16794
buying guides and recipes for Project Head Start centers feeding program, 7278
buying, how to use USDA grades, 16936
challenge of agricultural abundance for peace and relief of world famine (address), 9804
cheese in family meals, guide and recipes, 9818
code of Federal regulations, 7393, 8908
Communist China, translations, 3595
concentrates and their utilization in home, USSR studies, 9129
consumer information, price list, 2519
consumption, United States, sources of data and trends, 1909–63, supplement, 15479
costs—
components of farm-retail price spreads, 16732
retail prices, farm prices, etc., 15450

Food—Continued
distribution in rural community action, 10400
East European industries, translations, 3601
eat to live better, 6765
feeding young children, 6764
food and agriculture, a look ahead, statistical supplement, 7296
food and agriculture act of 1965—
law, 423
new, flexible, versatile food and farm bill for rural America (remarks), 5297
questions and answers relating to consumers, 36
food and farm price increases (address), 12613
food costs, farm prices, information relating to agriculture, 13012, 15954
food, drug, and cosmetic act—
amend—
hearings, 15979
law, 15702
report, 13123
as amended, text, 11984
enforcement and compliance, FDA report, monthly, 2915
enforcement regulations, 16318
notices of judgment, 3282
food, drug, and cosmetic laws, State officials enforcing, directory, 5967
food for freedom act of 1966—
hearings, 11785
message from the President, 4072
reports, 10175, 10219
food for freedom legislation (addresses), 9807, 9810
food for freedom program (addresses), 9805, 14120
food for peace—
act of 1966, reports, 14467, 15927, 17338
activities under Public Law 480, 14383
from people of United States, 15461
newsletter about activities under PL 480, 2983
food for young families, 6764–66, 8157–59, 9826
foods go to market (remarks), 1585
from farmer to consumer, report of National Commission on Food Marketing, 13870
home-prepared, calculating nutritive values, 9781
home production in rural community action, 10401
import detentions, report, 3465
in time of need, USDA's commodity distribution program, 15470
increasing production for new war against hunger (address), 14129
India, increasing supply—
hearings, 8762, 11636
law, 11549
message from the President, 8499
reports, 8594, 8737
industry and government (address), 37
irradiated food products, approval by Food and Drug Administration, etc., status of petitions, 12692
irradiation, world outlook, 5417
low-cost abundance, high level quality, and exciting variety (address), 14124
manufacturing, structure, report, 16731
marketing—
economic inquiry, 2033
special studies, 15218, 16733
meal planning made easy, 6766
milk and food, reference list of publications, 13987
miscellaneous products, census of manufactures, industry report, 3886
money-saving main dishes, 11352
national food situation, 3237
nutrition lessons, guide for extension economists, 8159
Food—Continued
nutritive value of food available for consumption, 5270
organisms and fish, acclimatization in seas of USSR, 2223
outlook for food consumption, prices, and expenditures (talk), 4291
perishable, storing in home, 16925
pesticide residues in foods, 10545
pesticides in food products, methods of determining, USSR study, 7624
plentiful food, PF series, 3327
plentiful foods program, marketing aid, 1602
poultry in family meals, 6749
preparation and serving equipment, Federal item identification guides for supply cataloging, supplements, 2939
preparation and serving in garrison mess, Army technical manual, 8265
preservation and protein enrichment of foodstuffs, USSR study, 909
preservation by irradiation, evolution and present status in world, 12669
prices charged for meals served employees at penal institutions, GAO review, 10627
private labels, frequency of use by distributors, 16733
protecting our food, agriculture yearbook—
departmental edition, 16940
document edition, 17160
protection—
environmental health series, 2526, 13952, 15276
hot tips, 9626
selected publications, bibliography, 15272
publications, price list, 17992
radiation pasteurization program, 5th annual contractors meeting, 5387
radiation preservation, effects of low level irradiation, 8294
radiation processing, hearings, 450
radionuclide analysis, 12465
radionuclide content of foodstuffs, Christmas Island, Operation Dominic, 8297
retail prices by cities, 2890
retailing—
organization and competition, 13871, 15217, 16730
private label products, prices, regulations, etc., 15218
safeguarding from agents of mass destruction, USSR study, 891
San Juan, P.R., improved handling facilities, 46
science and economics, research careers, 9825
selecting and buying, 9826
shopper's guide to U.S. grades, 3750
toxicoses and toxic infections, 17789
U.S. exhibitions around the world, 6784
vending, food sanitation requirements, 14997
warehousemen, rules for (poster), 13351
what food means to people, guide for program aides in home economics, 15457
wholesale food distribution facilities—
Boston, Mass., 3759
Montgomery, Ala., 11358
Springfield, Mass., 48
world needs, 7297
world population and food crisis, hearings, 7107, 8645
print additional copies, reports, 17278, 17544
staff summary of testimony, 7110
see also Canned foods—Emergency mass feeding—Food poisoning—Frozen foods—School lunches—*also* names of foods.
Food and Agriculture Organization of United Nations, constitution, amendments and text, 12533

Food and Drug Administration:
career opportunities, invitation to pharmacologists, 8947
civil defense information for food and drug officials, 7446
conference on drug abuse control amendments of 1965, proceedings, 10550
drug activities, interagency coordination, report, 8759
fakes and swindles in health field catalog, 7448
FDA memo for consumers, CM (series), 2049, 5968, 8946, 10545
FDA publications, 2050, 5969, 7447–49, 10546–548
FDA report on enforcement and compliance, monthly, 2915
grain sanitation program on handling of food grains, 2050, 5969
health programs, law, compilation, 13049
irradiated food products, approval, status of petitions, 12692
peanut butter, FDA final standard, 2049
poster series, 13351
radio-TV packet (periodical), 3450
report on oral contraceptives, 14685
student materials for consumer education, 4431
student reference sheet SR series, 2052–53
Food, drug, and cosmetic act, *see* Cosmetics—Drugs—Food.
Food for animals:
certified products for dogs, cats, and other carnivora, certified products for, regulations governing, 1954
from marine-animal products, firms canning, list, 778
trade and tariff, information, summaries, 14045
Food for livestock:
cattle feeding rack for hay and silage, 11362
commercial cattle feeding industry, structure and conduct, 17947
creep feeding beef calves in Florida, effects on weight and market grade, 3767
dairy cattle, concentrate rations fed, 9741
economies of scale in cattle feeding, 16722
economies of size for specialized beef feedlots in Colorado, 10411
feed consumed by various classes of livestock, by States, 16941
feed market news, weekly, 2971
feed situation, 2972
feeding floor for 200 pigs, 11361
livestock-feed relationships, 1909–64, supplement, 65
milk cows, roughage fed, summer feeding season, 2594
packer feeding of cattle, volume and significance, 16930
pneumatic conveyor for distributing farm feed, 15477
production, 261
roughage fed milk cows, 11283
State feed laws, officials enforcing, directory, 5967
Food for poultry:
pneumatic conveyor for distributing farm feed, 15477
production, 261
State feed laws, officials enforcing, directory, 5967
Food poisoning:
fish as source of human poisoning, USSR study, 16486
prevention, USSR study, 4592
Food preservation, *see* Food.
Food processing:
inspecting food processing plants, 2052
radiation processing, hearings, 450
Food service facilities, *see* Restaurants, lunch rooms, etc.
Food service workers, emergency mass feeding, basic course, 17028
Food stamps:
program—
expanding, 15466
initial evaluation of pilot projects, 5831
is coming into your area, 11835
Food stores, *see* Stores.
Foot-and-mouth disease:
importation of meats and animals that have transited infected countries, opinion of Attorney General, 9191
prevention and control measures, USSR study, 2166
virus of type Asia-1, immunobiological properties, USSR study, 997
Foot-and-mouth disease vaccine, improving process used in producing, USSR study, 2243
Foot rot in sheep, cause, detection, treatment, and prevention, 14136
Football, professional teams, authorize merger of leagues and protect secondary schools from professional football telecasts, reports, 16156, 17341
Footlight (periodical), 2984
Footwear, *see* Boots and shoes.
For commanders, this changing world, 108
For you, officer's career in Armed Forces, 11847
Forage plants:
adaptability of forage species for pinyon-juniper sites in New Mexico, 4452
Appalachian hillside pasture, 12606, 15447
emergency revegetation to rehabilitate burned watersheds in southern California, 10605
rooting cuttings of browse plants, 4458
southern browse species, seasonal twig growth, 5988
trends in crop varieties, 17651
western range forbs, notes, 8142
wheat pasture, 3706
Forbearance, FHA provisions, consumer bulletin, Spanish edition, 7365
Forbs, western range, notes, 8142
Forbus, W. R., jr., evaluation of mechanized egg-grading and packing equipment, 12607
Force and energy:
electrode phenomena in high energy density, discharges as applied to plasma acceleration problems, 12266
energy absorportion, concepts of multiple-impact study, errata, 1179
energy output of pyrotechnic devices, measuring system, 7805
energy requirement for placing instrument package under ice, 8236
energy storage concept uses tapes, 7770
energy transformation in atmosphere of Northern and Southern Hemispheres and interaction of processes in both hemispheres, 2442
energy transport by thermal field emission, 11070
forces of suction of screw propellers, effect on handiness of vessel, USSR study, 1005
forces on sphere accelerating in viscous fluid, proposed equation for calculation of, vertification, 15508
non-isoenergetic turbulent Prandtl number jet mixing between two compressible streams at constant pressure, 9397
periodic forces, on screw propeller, determination, USSR study, 1048
planetary perturbations, general, expansion of disturbing force, computation, 6412
pressures and forces acting on ring baffle under sloshing conditions, 6336
role of energy (remarks), 3858
transducer measures force in vacuum, environment, 7807
Ford, Gerald R., record of press conference statements for Joint Senate-House Republican Leadership, 17407

Ford, Robert P., field test of procedures for evaluating and scheduling white-pine weevil control, 792
Forecasting air pollution potential, advisor service of Public Health Service, etc., 11182
Forecasts:
cybernetic predicting devices, USSR study, 16449
manpower requirements, 2294
ocean thermal structure forecasting, ASWEPS manual, 12411
see also Precipitation—Weather forecasts.
Foreclosure of mortgages, *see* Forbearance—Mortgages.
Foreign affairs, *see* International relations.
Foreign Affairs Committee, House:
activities, 89th Cong., 1st sess., 7143
calendar, 3116
committee prints, 513, 1857–60, 5692–93, 7134, 7136, 7138–42, 10243–244, 10343, 11654–655, 13036–37, 14418, 14420, 17378
hearings, 514, 4090, 4131, 7135, 7137, 7144, 8667–68, 10181, 10241, 10243, 11651–652, 11656–657, 13032–33, 13035, 13038, 14419, 14421, 15967, 15969, 17376–377
reports, 1835, 4090, 5637, 5668, 7099–7100, 8574, 10169, 10181–182, 12957–963, 12977, 15850, 15919, 17237–238, 17290
subcommittee prints, 11653, 13034, 15968
Foreign agents:
registration act—
administration, report, 14960
amend—
hearings, 5699
law, 11584
reports, 8631, 11630
Foreign Agricultural Service:
appropriations, 1967, hearings, 8648, 11787
biographic register, 12520
market promotion activity, review, report, 17266
miscellaneous, FAS–M series, 2054–55, 4432, 5970, 8948, 10551, 11989, 13352–354, 16319, 17680
special reports, list, 8949
Foreign agricultural trade, *see* Agricultural products.
Foreign agriculture, *see* Agriculture.
Foreign agriculture (periodical), 2986
Foreign agriculture circulars, 2987
Foreign aid:
agreement with China, Republic, 5161
agricultural development, monthly newsletter to cooperators, 3073
American assistance in developing countries, (address), 10690
appeal for renewal on grand scale, twenty years after, 14377
development digest (periodical), 2854
disposal of surplus property abroad, hearings, 14483
economic assistance programs, guiding principles, 9054
expenditures, study, authorization, report, 5756
facts about program for 1967, new initiatives in agriculture, education, and health, 9053
foreign assistance act of 1961—
amend—
analyses of bills, 7142, 13036
background information and analysis, 7134
hearings, 5810, 7135, 8667, 10241, 11806, 14419
law, 17105
reports, 5668, 5671, 5788, 13144–145, 15850, 15862, 17228
technical and economic assistance to cooperative enterprises, staff report, 13024
Foreign aid—Continued
foreign assistance act of 1966—
analyses of bills, 7142, 13036
hearings, 7135, 8667, 10241, 11806, 14419
law, 17105
reports, 15850, 15862, 17228
foreign assistance appropriations, 1966, report, 545
foreign assistance appropriations, 1967—
hearings, 13014, 17568
reports, 15915, 16159, 17263
foreign assistance authorization, supplemental—
background information and analysis, 7134
hearings, 4131, 5810
print additional copies, report, 7193, 10194, 15882
law, 7035
reports, 5688, 5671, 5788, 7090
foreign assistance program, authorizations and appropriations, 1966, staff memorandum, 1860
foreign assistance program, report 1965—
departmental edition, 6075
document edition, 5600
foreign economic assistance authorization, 1967, report, 13145
free world economic cooperation, strengthen, proposals, report, 1793
important issues, report, 13211
Latin America, use of excess property by U.S. program, report, 8628
operations report, 3298
policies underlying U.S. program, review, background memorandum, 1940
program status (address), 9051
proposed economic assistance programs, 1967, AID summary presentation to Congress, 9055
technical cooperation agreement with Afghanistan, 5171
U.S. economic assistance programs in Vietnam, investigation, report, 15950
voluntary—
programs, reports of American registered agencies, 6078, 7530
register of agencies, 6077, 10692
war on hunger problem, message from the President, 4072
what should be policy of United States? national high school debate topic 1966–67, 13065
world war on hunger, hearings, 7107, 8645
print additional copies, reports, 17278, 17544
staff summary of testimony, 7110
see also names of countries.
Foreign assistance, *see* Foreign aid.
Foreign banking in United States, 12840
Foreign born, age of foreign stock by country of origin, population of U.S., census, 1960, 211
Foreign Claims Settlement Commission:
appropriations, 1967—
hearings, 15955
reports, 15938, 17539
report—
June 30, 1964, semiannual, 784
Dec. 31, 1964, semiannual, 10552
Foreign commerce, *see* Commerce.
Foreign consular offices in United States, 1966, 9720
Foreign countries:
agricultural changes in 26 developing nations, 630
consular offices in U.S., 9720
cruise ships out of U.S. ports, require licenses, hearings, 13204
designations used in compiling U.S. foreign trade statistics, code classification—
change, 3910
schedule C, 6936

Foreign countries—Continued
developing countries, how to establish current reporting of employment, hours, and earnings, 12209
gifts and decorations, acceptance by government officials and employees, establish basic uniform standards, reports, 10286, 17238
governments, District of Columbia headquarters site, acquisition of property etc., authorize, hearing, 11807
hope for hungry nations (address), 3753
industrial technical assistance programs, compendium, 10017
labor conditions, new publications, 4738, 10879
labor unit cost in manufacturing, 1950–65, trends in 9 countries, 17810
living costs abroad, Department of State indexes, 2305
passenger travel to and from U.S., 3467, 12038
passenger vessels, examination by U.S. Coast Guard—
hearing, 13039
report, 12919
relocating workers used by governments, economic policies and practices, 4040
shipping, discriminatory practices, reports, 14479
social security developments, 1471
statistical briefs, 3536
statistical publications, accession list, 2993
tax barriers on foreign investments in U.S., remove, statements, summary, 1878
tort claims arising, settlement by VA, law, 402
trade fairs scheduled, sales opportunities for U.S. manufacturers through participation, 4574
U.S. policy and foreign investment (remarks), 11531
visa of United States passports, fees charged by foreign countries, list, 8060
see also Foreign agents—*also* subject involved.
Foreign currencies, *see* Money.
Foreign curriculum specialists, overseas projects in education, 14553
Foreign decorations, *see* Decorations of honor.
Foreign developments in machine translation and information processing, 2988
Foreign exchange:
competitive rate accommodation service, suspension, GAO report, 810
earnings, 1947–63, agricultural exports from temperate and tropical zones, 7293
gold reserves, international liquidity, current trends, 10416
rates, monthly, 2989
rates, weekly, 2990
regulations governing operations, 16879
Treasury and Federal reserve operations, 7421, 17663
United States official operations, 11304
Foreign languages, *see* Language and languages.
Foreign market survey (series), 174–178
Foreign object damage to gas turbine engines, 5300
Foreign policy, *see* International relations.
Foreign relations, *see* International relations.
Foreign Relations Committee, Senate:
background information, 5806
calendar, 3136
committee prints, 574, 1940, 4218, 5806–7, 5811, 7213, 10341–344, 11804, 13211
consultative subcommittees, list and scope of coverage, 574
hearings, 575–576, 5805, 5808–10, 8772–73, 11805–807, 13210, 14481, 16186, 17579
investigations and studies U.S. foreign policies authorization, report, 4179
Foreign Relations Committee, Senate—Continued
reports, 1887, 1914, 5753–54, 5770, 5778, 5787–88,10279, 10282, 10286, 13087–91, 13144–145, 16001–2, 16102–103, 16136–137, 16157, 16166, 17413, 17529
Foreign Scholarships Board:
major activities, summary, 14691
report, 785
Foreign Service:
act, amendments of 1965—
hearings, 11805
Ramseyer rule print, 1858, 7139
act of 1946, as amended to Nov. 7, 1965, 7136
annuities, adjustments, law, 410
annuities, increase, and other employee benefits, report, 16157
biographic register, 12520
building act, amend—
hearings, 7137
law, 17128
reports, 10169, 16137
buildings program, inspection in Tokyo, Japan, Hong Kong, Saigon, Vietnam, Bangkok, Thailand, and Wellington, New Zealand, report, 5637
career, 8055
career opportunities in USIA, 2618
department and foreign service series, 8055, 9719–20 12520, 15339, 16854
embassy construction projects, etc., use of American-made materials, GAO report, 8992
employees, salary rates, 7159, 14434
list, 2992
officers, key, of foreign posts, guide for businessmen, 3104
see also Overseas service.
Foreign Service Institute:
basic language courses—
Cambodian, 14029
German, 5153
Hebrew, 8061
Moré, 14031
Serbo-Croatian, 6639
Swahili, 18122–123
Turkish, 12539
Foreign studies extension, overseas projects in education, 16232
Foreign trade, *see* Commerce—*also* names of countries or places—*also* names or classes of commodities.
Foreign-trade zones, laws, regulations, etc., 14692
Foreign-Trade Zones Board, report, 13356
Foreigners, *see* Aliens.
Forensic chemistry (USSR textbook):
preface and table of contents, 7597
Forensic psychiatry, *see* Psychiatry.
Forest conservation, *see* Forests and forestry.
Forest experiment stations, *see* names of stations.
Forest fires:
Angeles National Forest area, children-with-matches fires, prevention, etc., 17695
backfires and headfires in pine needle fuel bed, 5980
behavior pattern, monthly, types, maps, etc., 17696
estimating crown fuel weights of red pine and jack pine, 7461
fire control notes (periodical), 2975
fire control, seasonal employment, information, 6274
fire planning in Intermountain West, 14713
fire prevention signs, modifying communicative effectiveness, 17691
firebreak maintenance with soil sterilants, 14707
fuel size components of chamise, variations in moisture content, 10573

Forest fires—Continued
Ouachita Mountains, danger as related to airmass, 4456
prevention and control, hearing, 14405
prevention, knowledge and attitudes of residents of Butte County, Calif., 8976
report, 2056
south-central Idaho Douglas-fir, initial vegetal development following prescribed burning, 16337
statistics, 14693
temperatures in large natural-fuel fire, 10578
10 standard fire fighting orders, programmed text, 4484
Forest lands, *see* Forests and forestry—National forests.
Forest nurseries:
tree nurseries in U.S. 1965, list, etc., 8979
tree planters' notes, 2081, 6000, 8979, 10615
Forest patterns, beauty and use, 1599
Forest pest leaflets, 2057, 4438, 7451–54, 14694–696, 16322
Forest plantations, *see* Trees.
Forest planting:
and seeding, report, 6000
Hawaii, record, 2079
reforestation and stand improvement projects, economic evaluation, 9813
seeding conifers and buffer crops to reduce deer depredation, 17687
seeding shortleaf pine in Missouri Ozarks, 10592
survival and early growth of planted forest trees on strip-mine spoils in anthracite region, 10600
survival and 5-year growth in unit 4, Waiakea Arboretum, Hawaii, 10576
tree planters' notes, 2081, 6000, 8979, 10615
yellow birch seedings, growth response to humus-mineral soil mixtures, 14705
Forest products:
carload waybill statistics, 6083, 12061
demand and price situation, 57
imports and exports via Great Lakes, etc., 14706
industries, progress in general economy (address), 14121
insecticides, guide, 9814
Forest Products Laboratory:
publications, lists, 786, 7457, 17682
wood and wood products, mechanical properties and structural uses, 7455
Forest rangers, in your service, story of their work, 1582
Forest Reservation Commission, National, *see* National Forest Reservation Commission.
Forest Service:
adjustments made in fees charged for summer-home sites on national forest lands, GAO report, 4497
annual report, 5974
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10160, 10281
employment, nonprofessional, 8149
equipment development ED&T report, 4437
films available for educational purposes, list, 5971
in changing conservation climate, I & E approaches to organizational and public needs, 5972
Pacific Northwest Region, timber measuring, GAO report, 7476
poster—
how a tree grows, 7456
what we get from forest land, 802
rental of employees' property—
hearings, 4118
report, 1909
Forest Service—Continued
research notes, 788–792, 2058–73, 4439–60, 5975–89, 8954–67, 10563–589, 13357–369, 14699–711, 16323–335, 17683–696
research papers, 793–801, 2074–78, 4461–76, 5990–97, 7461–62, 8968–77, 10590–610, 11994, 13370–373, 14712–716, 16336–339, 17697–704
resource bulletins, 2079–80, 4477–80, 5998–99, 7463, 10611–612, 11995–996, 14717–720
timber-cutting practices in Pacific Northwest Region, need for effective controls, GAO report, 16345
Foresters:
conservation occupations, 9224
examination announcement, 3980
on-the-ground demonstration of northern hardwood timber management, 11992
Forestieri, Americo F., effect of ionizing radiation on ruby, 7888
Forestry, *see* Forests and forestry.
Forestry cooperatives, public assistance in organizing, etc., 12612
Forests and forestry:
Agriculture Dept. provides year-round fun, publications list, 6775
area-oriented multiple use analysis, 8971
Caribbean forester, 2730
compound interest tables for long-term planning in forestry, 12595
controlling light in small clearcuttings, 801
costs, analyzing, gross job time study, efficient method of analyzing, 4450
do petroleum-based coatings add fuel value to slash? 10572
East Eureopean forestry, translations, 3601
fair labor standards act, applicability to forestry or logging operations, 11312
forest patterns, beauty and use, 1599
forestry aids, conservation occupations, 9224
forestry conservation, activities guide for youth group leaders, 16935
genetics and related research, annotated bibliography, 14715
Indian forest enterprises, recovery of Gov't. expenditures, GAO report, 7467
industries in Pacific Northwest—
production, prices, employment, and trade, 3420
prospective developments, 6875
industry, applying linear programming, 10609
insects—
conditions in Pacific Northwest, 10555
conditions in United States, 16321
inventory system for multiple use evaluations for forest land, 7462
juniper and pinyon woodlands, Cibecue Ridge, throughfall for summer thunderstorms, 6033
Kentucky's resources—
Blue Grass Unit, 14718
Eastern Unit, 11995
Northern Cumberland Unit, 11996
Pennyroyal Unit, 14717
Southern Cumberland Unit, 4477
Western Coalfield Unit, 14720
Western Unit, 14719
litter in longleaf pine stands, thinned to prescribed densities, 16334
loblolly pine plantations, forest floor related to stand characteristics, erosion study, 4459
lodgepole pine reproduction after slash disposal treatments, 13364
logging and slash burning, effect on understory vegetation in H. J. Andrews Experimental Forest, 8961
Louisiana forests, 2080
McIntire-Stennis cooperative forestry research program, administrative manual, 14132

Forests and forestry—Continued
Maine, southern, average growth rates, 17685
motivations of small-woodland owners, summary of 9 State studies, 697
multiple use management, forest conservation for growing nation, 16938
nighttime drying in Santa Ana Mountains, 2068
northern hardwood stands, 4 methods of marking 2d growth, 14700
northern, problems of habitat management for deer and elk, 8973
petroleum gel as slash ignition and fuel booster, 10584
prescribed burn, effect on habitat, 16329
publications, price list, 12458
radiant energy in relation to forests, 1609
research, cooperative program fact sheet, 5837
research notes, 788–792, 2058–73, 4439–60, 5975–89, 8954–67, 10563–589, 13357–369, 14699–711, 16323–335, 17683–696
research papers, 793–801, 2074–78, 4461–76, 5990–97, 7461–62, 8968–77, 10590–610, 11994, 13370–373, 14712–716, 16336–339, 17697–704
resource bulletins, 2079–80, 4477–80, 5998–99, 7463, 10611–612, 11995–996, 14717–720
schools in U.S., list, 10556
seasonal employment, information, 6274
signing for no smoking ordinance in southern California, 2065
silvics of European alder, 11997
silvics of forest trees of United States, 29
slash cleanup in ponderosa pine forest affects use by deer and cattle, 13366
soil sampling, wetland plots in Coastal Plain, 14711
solar beam irradiation on slopes, 10607
spruce-fir forests, use of openings by elk, deer, and cattle, Arizona, 13368
station paper, Southeastern Station, 4483
Utah, forests, 4478
water supply and forests, general information, 16922
what we get from forest land, poster, 802
yield tables for managed stands with special reference to Black Hills, 13373
see also Chaparral—Forest fires—National forests—Timber—Trees—Volume and yield tables—*also* names of forests.
Forges, forge shop occupations, employment outlook, 9241
Forgings:
census of manufactures, 1963, industry report, 6906
high energy-rate forging, effect on structure and properties, 9378
see also names of metals, etc., forged.
Form letters, *see* Correspondence.
FORMAC (formula manipulation compiler), *see* Electronic computers.
Formcoke, *see* Coke.
Forming tool improves quality of tubing flares, 4838
Forms, blanks, etc.:
index of AMC blank forms, military, 5340
management guide, 12443, 16772
manifold business, census of manufactures, 1963, industry statistics, 8332
operating forms, Federal manual for supply cataloging, 605
standard forms, standard, optional, and GSA forms, 16290
see also names of departments, etc., issuing or using forms—*also* subjects.
Formulation of problems of finding stress functions with aid of biharmonic potentials, 5000
Forney, Albert J., decaking of coals in fluid bed, 10931
Forrestel, E. P., Admiral Raymond A. Spruance, USN, study in command, 12412
Forsberg, Kevin, modal characteristics of cylindrical shells, 16618
Forsyth, Gordon J., reclamation era, 3456
Forsythe, Richard W., impulse and thrust test of sublimating-solid micropropulsion system, 6432
Fort, *see* name of fort, except when occurring as first word of name of town, etc.
Fort Belknap Indian Reservation, geology and hydrology, 824
Fort Brooke Military Reservation, convey land located in, to Puerto Rico, report, 17495
Fort Caroline National Memorial, general information, 1330
Fort Clatsop National Memorial, general information, 11125
Fort Donelson National Military Park, general information, 17957
Fort Huachuca Military Reservation, southeastern Arizona, water resources, 13417
Fort Laramie National Historic Site, general information, 17958
Fort Lyon Veterans Hospital, real property, retrocede jurisdiction to Colorado, report, 10132
Fort Matanzas National Monument, general information, 7944
Fort Meade quadrangle, Fla., economic geology, 12011
Fort Randall Dam, flow in chute spillway, hydraulic prototype tests, 10443
Fort Smith National Historic Site, general information, 6507
Fort Union Trading Post National Historic Site:
establish—
law, 11567
report, 11742
Fort Vancouver National Historic Site, general information, 9569
Fort Worth, Tex.:
area wage survey, 6264
Federal office building, name in honor of Fritz Garland Lanham—
law, 15723
reports, 8545, 13185
housing project for elderly, FHA approval of mortgage insurance, GAO report, 6021
principal electric facilities, map, 7379
Fortran, *see* Electronic data processing systems.
Forums (discussion and debate):
ad-hoc, scientific and technical information analysis center managers, directors, and professional analysists—
directory, 12677
proceedings, 12676
Forwarders, *see* Freight forwarders.
Fosberg, Michael A.:
case study of Santa Ana winds in San Gabriel Mountains, 8964
example of nighttime drying in Santa Ana Mountains, 2068
Fosick, Clyde A., applying linear programming in forest industry, 10609
Fossils, paleobotany of Cook Inlet region, Alaska, 12020
Foster, John F., use of silver oxide as regenerative carbon dioxide sorber, 10962
Foster, Norman G., mass spectra and correlations with structure for butylthiophenes, 7710
Foster grandparent program, 14526
Foster Wheeler Corp., conceptual design of 50 MGD desalination plant, 13430
Foundations (charitable and educational):
private foundations, Treasury Department report, written statements by interested individuals and organizations, 1873, 1877
Foundations (construction):
arctic and subarctic construction, 12663
design of buildings and other structures, procedures, Army technical manual, 130

Foundations (construction)—Continued
grouting, planning, engineering and design manual, 17633
new model, 12649
spread footing tests on snow, 14212
Foundries:
copper-base products, current industrial reports, 2818, 8352
foundry products, census of manufactures, 1963, industry statistics, 6905
iron and steel—
census of manufactures, industry report, 3899
current industrial reports, 2817
nonferrous, industry wage survey, 10873
occupations, employment outlook, 9301
USSR, new regional, 12121
Foundry supplies, foundry equipment, industrial plant equipment handbook, 11842
Fountain County, Ind., soil survey report, 18105
4-H clubs:
challenge to young America (address), 3748
first-year members, meeting basic needs, 8152
Fourier coefficients, *see* Coefficients.
Fournier, Roger H., supersonic aerodynamic characteristics of series of related bodies with cross-sectional ellipticity, 15157
14–B, *see* Industrial relations.
Fourth-class mail rates, *see* Postage.
Foveal acuity, *see* Acuity.
Fowells, H. A.:
natural regeneration in relation to environment in mixed conifer forest type of California, 8975
silvics of forest trees of United States, 29
Fowler, E. Eugene, address, Nov. 17, 1965, 163
Fowler, Henry H.:
remarks, statements, etc.—
Oct. 14, 1965, 1521
Nov. 8, 1965, 1515
Nov. 17, 1965, 1517
Nov. 19, 1965, 1522
Nov. 28, 1965, 1518
Nov. 30, 1965, 2617
Dec. 2, 1965, 1516
Dec. 8, 1965, 1519
Dec. 10, 1965, 1520
Dec. 21, 1965, 2615
Jan. 18, 1966, 5195
Feb. 14, 1966, 6676
Feb. 17, 1966, 6678
Mar. 14, 1966, 6677
Mar. 23, 1966, 8106
Apr. 4, 1966, 8105
Apr. 5, 1966, 8104
Apr. 21, 1966, 9749
Apr. 27, 1966, 9750
May 3, 1966, 9744
May 4, 1966, 9752
May 5, 1966, 9751
May 27, 1966, 11300
June 12, 1966, 11302
June 16, 1966, 11303
June 17, 1966, 11301
July 25 and 26, 1966, 14053
Sept. 21, 1966, 16890
Sept. 28, 1966, 16891
Oct. 14, 1966, 16884
Fox, Charles H., radioactive wastes, 15549
Fox, Lawrence A., address, Apr. 14, 1966, 9050
Fox, R. B. photolysis of polystyrene films in vacuum and in air, 2496
Fox, Thomas A.:
critical mass studies with NASA zero power reactor, II—
clean homogeneous configurations, 1263
heterogeneous arrays of cylindrical voids, 15167
Foy, Bernard L.:
bibliography for TVA program, 11291
indexed bibliography of Tennessee Valley Authority, Jan. 1963–Dec. 1964 cumulative supplement, 12544
FPC, *see* Federal Power Commission.
FPC R series, 4379, 5940
FPC S series, 4380–81, 7373, 8903, 11926 17655
Fraas, Foster, matrix-type magnetic separator 4800
Fracastorius, LAC 97, lunar chart, 85
Fractionation, tissue, zonal centrifuges and ancillary systems development, 15289
Fractographs, electron microscope, interpretation, 9597
Fracture of metals:
aluminum etc., tanks, projectile-impact-induced fracture, 11076
brittle fracture concepts, studies, 5135
cold reduction as means of reducing embrittlement of cobalt-base alloy (I–605), 13832
crack extension and propagation under plane stress, 9641
developed in wet fatigue, Ti-7Al-2Cb-1Ta and Ti-6Al-4V fractures, fractographic analysis, 12423
fatigue-crack propagation and residual static strength of PH 15–7 Mo(TH 1050) stainless steel, 2433
fatigue cracks detected and measured without test interruption, 9483
fracture-safe design of complex welded structure, concepts and procedures, 1379
high-manganese, low-carbon steel for ship plate, mechanical properties, 14010
impact fracture of walls of liquid-filled tanks, effect of projectile size and material, 16688
micro- and macrocrack formation, 2551
modes, electron microscope examination, 1377
plate, extension, effect of orientation of rectilinear crack on its propagation, 2447
pressure vessels, through-cracked cylindrical, fracture mechanics, 6437
salt stress corrosion cracking of residually stressed Ti-8Al-1Mo-1V sheet, 7837
semi-atomistic model for flaw-induced fracture in non-ductile materials, 9439
steel, exhaustion of ductility under notch constraint following uniform prestraining, 14009
steel, fatigue cracked, conditions of failure, 6541
stress-intensity factors for 3-point bend specimens by boundary collocation, 2410
testing for cracks with paramagnetic fluorescent testing media, East German study, 4682
titanium alloy plate and forgings, toughness tests, 1355
titanium alloys for deep-diving vehicles, toughness characteristics, 1362
Fragmenting tubes, *see* Tubes.
Fraguio, Guillermo Anido y, *see* Anido, Guillermo.
Fraise, Georges, relief, 12896, 17067
Fram Corporation, Tariff Commission report to Automotive Agreement Adjustment Assistance Board in case pertaining to certain workers, 15387.
Frame houses, *see* Houses.
Frames, house-framing system for low-cost construction, 15452
Framingham, Mass.:
habits and coronary heart disease, study, 18005
local protection, Sudbury River, Saxonville, engineer report—
departmental edition, 672
document edition, 538
Franca, Jorge I. Miguel, *see* Miguel Franca, Jorge I.

France:
American military installations and NATO bases, onsite inspection, subcommittee report, 15961
business machines and equipment, 7007
education, commission for educational exchange and financing programs, agreement, 5162
electronic products, market information, 10028
French-Russian relations, Le Monde discussion, 2170
industrial equipment industries, 5550
labor conditions, 13630
manpower policy and programs, 16515
market for scientific, industrial and technical instruments and equipment, 1773
market for toys, games, dolls, 347
mineral industry, minerals yearbook chapter, 13689
north coast, sailing directions, 5053
selling in France, 344
weather stations, cooperative program on Guadeloupe Island, agreement, 16867
withdrawal from military cooperation in NATO—
hearings, 11651
reports, 14418, 15919
Franchise tax:
District of Columbia, amend act—
laws, 15761, 17106
reports, 12905, 17201
Franchise (business):
description (remarks), 4020
franchise company data, equal opportunity in business, 8425
franchise firms which do not discriminate, etc. (remarks), 351
franchising agreements, effect on small business, hearings, 14495
Francis, Peter S., ultrathin reverse osmosis membranes, 9039
Francis Case Memorial Bridge, designate, report, 479
Franco, John J.:
model study of Bessie Cutoff, Mississippi River, 678
navigation conditions at Locks and Dam no. 4, Monongahela River, 16250
Franco, Miriam Sierra-, *see* Sierra-Franco, Miriam.
Franco-American Commission for Education Exchange, agreement, 5162
Frank, Ernest C., potential solar beam irradiation on slopes, 10607
Frankel, Charles, lecture, Apr. 25, 1966, 12524
Frankel, H. M., Jr., serum lipids and blood ketones during progressive hyperthermia, 12365
Frankfort, J. H., engineering and evaluation study for manufacture of wood-plastic composites, 15534
Frankfurt, Germany, U.S. trade center, 14783
Franking privilege, telegraph and telephone, FCC rules and regulations, 2927
Franklin, W. P., Lock and Control Structure, *see* W. P. Franklin Lock and Control Structure.
Franklin County, Fla., oyster-based economy, 6585
Franklin County, Mass., surficial geology, 9006
Franklin D. Roosevelt Library, general information, 11087
Franklin Delano Roosevelt Memorial Commission:
appropriation authorization, increase, law, 407
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10281
Franquiz, Jose J. Diaz, *see* Diaz Franquiz, Jose J.
Frantz, Allen L.:
achieving Ariel II design compatibility, 9504
integrating spacecraft systems, 7813
Frantz, John C., Federal Government and public libraries, 10-year partnership, 13419
Fraser, T. M.:
effects of confinement as factor in manned space flight, 13711
human response to sustained acceleration, 10978
philosphy of simulation in man-machine space mission system, 10977
Frasier, Roberta C., helping parents teach young children, 8162
Fraud:
fakes and swindles in health field, catalog, 7448
sale of real estate subdivisions through mails and in interstate commerce, prevent, hearings, 16178
Fraud and mailability, enforcement action, 3005
Frayer, Warren E., average forest growth rates in southern Maine, 17685
Frazier, Emery L., our Capitol, 17404
Frazier, Ralph P., teaching guide to science and cancer, 7932
Fredericksburg and Spotsylvania National Military Park, general information, 9570
Fredga, Kerstin, temperature control unit for sounding rocket applications, 16655
Fredriksen, R. L., Christmas storm damage on H. J. Andrews Experimental Forest, 2064
Free atmosphere, *see* Atmosphere.
Free enterprise, *see* Laissez faire.
Free press and fair trial, hearings, 4225
Free-stall dairy system for 101 cows, 16933
Freeberg, Jacquelyn H., terrestrial impact structures, 16356
Freedman, Alfred M., address, July 26, 1965, 16790
Freedman, Audrey, impact of office automation in insurance industry, 4730
Freedmen's Hospital, appropriations, 1967, amendment, 13067A
Freedom, *see* Liberty.
Freedom of the press, *see* Liberty of the press.
Freedom of religion, *see* Religious liberty.
Freeman, Orville L.:
addresses, etc.—
Sept. 21, 1965, 31
Oct. 6, 1965, 1603
Oct. 7, 1965, 1607
Oct. 18, 1965, 1608
Oct. 22, 1965, 1605
Oct. 23, 1965, 1604
Nov. 12, 1965, 3738, 3740
Nov. 15, 1965, 3739
Nov. 23, 1965, 3753
Dec. 13, 1965, 3769
Dec. 16, 1965, 3768
Jan. 5, 1966, 5280
Jan. 11, 1966, 5282
Jan. 12, 1966, 9808
Jan. 25, 1966, 5281
Feb. 1, 1966, 6777
Feb. 8, 1966, 9839
Mar. 7, 1966, 9804
Mar. 9, 1966, 9805
Mar. 12, 1966, 9838
Mar. 21, 1966, 9807
Mar. 22, 1966, 9810
Mar. 28, 1966, 9836
Mar. 30, 1966, 9809
Mar. 31, 1966, 9806
Apr. 5, 1966, 9873
Apr. 13, 1966, 14160
Apr. 16, 1966, 11345
May 4, 1966, 14121
May 13, 1966, 14128
May 14, 1966, 14126
May 25, 1966, 14153
May 26, 1966, 14152

Freeman, Orville L.—Continued
addresses, etc.—continued
June 9, 1966, 14124
June 11, 1966, 14134
June 16, 1966, 14151
June 18, 1966, 14123, 14158
June 23, 1966, 14125
June 29, 1966, 14122
July 22, 1966, 14127, 14156–157
July 23, 1966, 14154–155
July 29, 1966, 14120
Aug. 4, 1966, 12613
Freeman, Richard M.:
parotid fluid total protein in patients with uremia and proteinuria, 9875
serum and parotid fluid free 17-hydroxy-corticosteroid levels in acute and chronic renal failure, 1627
Freeman, Robert E., agricultural marketing, vital link between farmer and consumer, 6753
Freeport, Tex., saline water conversion demonstration plant, annual report, 12049
Freeways, *see* Roads and highways.
Freezing:
desalting water by freezing, heat calculation of equipment, USSR study, 4649
home freezing of fruits and vegetables, 14137
saline water conversion, research, 7516, 10672
sea ice, heat, 16956
Freight:
carload waybill statistics, 1963—
agricultural products, 7532, 7535
all commodities, traffic and revenue, 6080
animals and products, 6081
forest products, 6083
manufactures, etc., 6082, 7531
mileage distribution by type of car, 7534
mine products, 7533, 7536
territorial distribution by type of car, 9056
tons of revenue freight originated and terminated by States and commodity class, 7537
traffic and revenue, 6084
weight distribution by type of car, 12062
commodity statistics, annual report, 17747
cost study of motor carriers, Middle Atlantic region, 6087
descriptions and suffixes, Army regulation, 8232
see also Shipments.
Freight cars:
insure adequate supply—
law, 10081
report, 8624
Freight forwarders:
air freight forwarder industry growth (remarks), 8381
air freight forwarders, role in air transportation industry, hearings, 14442
regional air cargo workshop (remarks), 14286
revenues, expenses, and statistics, quarterly, 8477
transport statistics, 4585
Freight rates:
cost of transportation by class 1 and 2 motor common carriers—
by region or territories, 17746
east-south territory, 6085
eastern-central territory, 6086
south central territory, 7538
southern region, 6088
ocean—
barrier to expanding beef exports, report, 564
discriminatory, and balance of payments—
hearings, 1792, 14369
report, 14370
guidelines for shippers, 12770
Freight rates—Continued
ocean—continued
military cargoes, by U.S.-flag ships at reduced rates—
hearings, 14478
reports, 16109, 17314
railroad carload traffic, 1955–63, indexes, 6090
reduction for exports, Action Committee report, 7005
Freight trains, *see* Railroads.
Freitas, Branca da Gloria F., relief, 1810
French, Burrell O., effects of low frequency pressure fluctuations on human subjects, 6464
French Broad River:
upper area, economic and resource development, summary—
basic data supplement, 2605
opportunities, resources, regional economy, 2604
French fried potatoes, *see* Potatoes.
French Guiana, mineral industry, minerals yearbook chapter, 7691
French Polynesia, Makatea Island, mineral industry, minerals yearbook chapter, 6297
French Somaliland, mineral industry, minerals yearbook chapter, 9362
Freon:
freon 114, cavitation similarity considerations based on measured pressure and temperature depressions in cavitated regions, 13824
provides heat transfer for solid CO_2 calibration standard, 12299
Frequencies:
absorption coefficient of seismic waves, determination of dependence, 16444
frequency and frequency-time systems of digital telemetering, USSR study, 7629
hydrogen maser, comparison with cesium beam standard, 7834
Korotkov blood pressure sounds, analysis, 8209
natural for transverse vibration of tapered beams, tables, 9417, 10936
see also Radio frequencies.
Frequency discriminators, binary output eliminates, tuned circuits, 1224
Frequency dividers, free of spurious outputs, 1210
Frequency independent technique for extracting rigid-body motion from total motion of large flexible launch vehicle, 1272
Frequency measurement, short-term frequency stability, IEEE–NASA symposium, proceedings, 1196
Frequency modulation, *see* Radio frequency modulation.
Frequency standards, rubidium vapor, long-term performance, 15210
Frerichs, Fritz A., relief, 8528, 11543, 11701
Fresh fruit, *see* Fruit.
Fresh-water fishes, *see* Fish and fisheries.
Fresnel integral, application to calculation of radiated acoustic field of rectangular pistons, 1373
Fresno, Calif., motor carrier accident, 7541
Frey, Edward R., revision of money supply series, 17662
Fricative sound, *see* Sound.
Friction:
aluminum oxide in contact with various metals in vacuum, 15185
bearing alloys with hexagonal crystal structure provide improved friction and wear characteristics, 15103
characteristics of—
polyimide, etc., in vacuum, 6441
single crystal and polycrystalline aluminum oxide in contact in vacuum, 15190
single-crystal beryllium in vacuum, effect of orientation, 12358

Friction—Continued
factor and heat transfer correlation for irradiated organic coolants, 9920
factors for helical corrugated pipe, 8127
factors for large conduits flowing full, 2548
gasdynamic, during blowing or suction through wall adjacent to flow, effect of rarefaction on, 4997
heat-transfer coefficient and friction factor data for dilute gas-solid suspensions, analysis and correlation, 15192
loading device enables accurate testing of brittle materials, 13780
static, magnetic-tape, testing device, 9526
torque in spur gear trains, analysis, 6542
tungsten, influence of grain orientation, 4970
see also Internal friction—
Skin friction (aircraft).
Friedericy, Johan A., behavior of floating ring dampers and dynamics of hypercritical shafts on flexible supports, 136
Friedland, Bernard, study of quasi-optimum feedback control techniques, 15043
Friedlander, Alan L., analysis of optimal celestial-inertial navigation concept for low-thrust interplanetary vehicles, 10938
Friedman, Manfred P., behavior of sonic boom shock wave near sonic cutoff altitude, 4815
Friedmann, Herbert:
Bartolome Bermejo's Episcopal saint, study in Medieval Spanish symbolism, 9651
host relations of parasitic cowbirds, 18095
Friend, Berta, nutritive value of food available for consumption, United States, 5270
Friendship International Airport, high-speed ground transportation to, study, report, 13153
Frlichtenicht, J. F., experiments on impact-light-flash at high velocities, 7738
Fringe benefits, *see* Employee benefits plans.
Frischmuth, Robert W., jr.:
bonded plastic tape use for lining filament-wound fiber-glass cryogenic propellant tanks, 4950
glass flakes as liner for fiber-glass cryogenic propellant tanks, 4893
thin films as floating liners for fiber-glass cryogenic propellant tanks, 4949
Fritz Garland Lanham Federal Office Building:
Fort Worth, Tex., name—
law, 15723
reports, 8545, 13185
From school to work, 60
Frosch, Robert A., nomination, hearing, 11790
Frost, W. T., water supply outlook and Federal-State-private cooperative snow surveys for Oregon, 3692
Frost:
heaving pressures, 3816
heaving, principles, 3815
injury to bitterbrush in eastern California, 4449
penetration and trafficability in two peats as affected by snowpack and surface mosses, 5981
Frozen foods, census of manufactures, 1963, industry statistics, 6889
see also Cold storage—*also* names or classes of foods frozen.
Frozen ground:
bibliography, with abstracts, 16957
frost-heaving pressures, 3816
migration and crystallization of interlamellar water during freezing and thawing of Wyoming bentonite, 8243
strength and creep of frozen soils, 11891
visual resolution and optical scintillation, 8233
Fruit:
canned—
economic inquiry into marketing, 2033
foreign agriculture circulars, 2987
certification of fruit entering Netherlands for possible transshipment, 5272
culture, etc. publications price list, 1404
deciduous, foreign agriculture circulars, 2987
disinfestation by gamma irradiation, dosimetry, tolerance, and shelf life extension, annual report, 8296
dried, foreign agriculture circulars, 2987
fresh—
market news, weekly summary, 3006
prices, 1965, Chicago and New York City, 9840
shipments, by commodities, States, etc., 14508
shipments by States, 10373
United States standards, check list, 8791
unloads—
eastern cities, by commodities, States, etc., 5833
for 41 cities, 7240
midwestern cities, by commodities, States, etc., 5834
southern cities, by commodities, States, etc., 5835
western cities, by commodities, States, etc., 7239
fruit situation, 3009
gamma radiation to extend market life, 45
home freezing, 14137
how to use USDA grades in buying, 16936
import competition, 16727
include certain fruits in agricultural marketing agreement act of 1937, hearing, 14406
industry, organization and competition, 15215, 16727–728, 17949
insect pests of deciduous fruits in West, 14130
marketing orders, Federal and State legislation, 17949
noncitrus, production, use, value, by States, 15379
northern Great Plains, growing for home use, 3751
processed, plants under USDA continuous inspection, list, 16202
prototype commercial forced-air precooler, 3732
selected fruits and products, homemakers use of and opinions about, 15449
shelf life, extending by use of radiation technology in postharvest procedures, 5413
see also Citrus fruit—*also* names of fruits.
Fruit and Vegetable Bargaining Cooperatives, National Conference, *see* National Conference of Fruit and Vegetable Bargaining Cooperatives.
Fruit juices, consumer purchases (periodical), 2794
Fruits, *see* Fruit.
Frustums, conic, right circular, flotation, stability characteristics, 7845
Frutchey, Fred P., motivations of small-woodland owners, 697
Frutiger, Hans, manual for planning structural control of avalanches, 13371
Frutkin, Arnold W., space and International Cooperation Year, national challenge, 1192
Fry, Edward R., revision of bank credit series, 13328
FSLIC, *see* Federal Savings and Loan Insurance Corporation.
FTC, *see* Federal Trade Commission.
Fuel:
briquets and packaged fuel, minerals yearbook chapter, 15006
economical fuels, savings by using at VA field stations, GAO report, 14739

Fuel—Continued
Federal item identification guides for supply cataloging, supplements, 2937
fuels and electric energy used, annual survey of manufactures, 12697
hydrocarbon, flammability properties, 5071
industries, employment and injuries, minerals yearbook chapter, 1109
mineral-fuel industries review, minerals yearbook chapter, 2357
mineral fuels, minerals yearbook—
departmental edition, 4784
document edition, 4047
moisture content of indicator sticks from weather variables, estimates, 10606
physical and chemical fundamental in use of motor, jet, and rocket fuels, USSR study, 13509
plastics compatibility, 8817
propellant fuels, pharmacology and toxicology, boron hydrides, 14188
retail prices and indexes, 3474
rocket fuel, fluorine and compounds as oxidizers, USSR study, 16473
sloshing, fundamental damping law, 6429
see also Fuel oils—Motor fuel.
Fuel briquets, *see* Briquets.
Fuel cells, *see* Electric batteries.
Fuel elements, *see* Reactor fuel elements.
Fuel oil:
ammonium nitrate, sympathetic detonation, 7714
bunker oil, foreign trade reports, 3641
burner fuel oils, petroleum products survey, 16569
diesel, petroleum products survey, 4786
facilities and systems, repairs and utilities, Army technical manual, 3831
farmers tax credit, 14775
liquid fueling and dispensing facilities, Navy design manual, changes, 1569
Fuels, *see* Fuel—Reactor fuels.
Fulbright program, *see* Education.
Fulkerson, Frank B., iron and steel scrap in Arkansas, etc., 9360
Fuller, Franklyn B., plane thermoelastic deformation of internally heated annular disks or hollow cylinders, 4985
Fuller, Harry C.:
decomposition of manganese sulfate by partial reduction process, 10930
recovery of manganese sulfate crystals from solution by submerged combustion evaporation, etc., 9382
Fullmer, Irvin H., dimensional metrology, subject-classified with abstracts, etc., 12383
Fulton, Robert E., effect of face-sheet stiffness on buckling of cylindrical shells of sandwich construction, 11074
Fulton, Ill., bridge across Mississippi River, revive act, etc., law, 12825
Fun Wat Hoy, *see* Hoy, Fun Wat.
Fun with circles, guide for parents, 9828
Function generators, eliminates necessity of series summation, 13786
Functional analysis, aircraft performance, calculus of variations, applications, 10965
Functions (mathematical), *see* Logarithms—Mathematics.
Fund raising, voluntary health and welfare agencies within Federal service, manual, 1756, 3178, 6968, 11499, 17043
Fundamentals of electronics, cross reference index of transparencies, 15244
Funds:
financial administration, accounting and control, NGB pamphlet, 12390
foreign funds control, regulations and related documents, 15398
land water conservation, 1st year and a half, 15255
unauthorized use of management and investigations of resources funds for new construction, by Sport Fisheries and Wildlife Bureau, GAO report, 16351
Funds—Continued
see also Money—Nonappropriated funds—Welfare funds—*also* names of departments, etc., for which funds are used—*also* subjects for which funds are used.
Funeral rites and ceremonies, *see* Military funerals.
Fungi, *see* Leaf cast.
Funk, David T., silvics of European alder, 11997
Funnels, modified Marsh funnel measures fire retardant viscosity, 8956
Fur:
catch in U.S., 783, 16316
Federal item identification guides for supply cataloging, supplements, 2939
industry, survey, United States, facts and figures, 8318
Fur seals, *see* Seals (animals).
Furbay, Walter M., bargaining cooperatives look to future, 14595
Furfari, Santo A., shellfish, depuration plant design, 13962
Furman, Sylvan S., community mental health services in northern Europe, 5025
Furnaces:
equipment, Federal item identification guides for supply cataloging, supplements, 2935
high-speed, uses infrared radiation for controlled brazing, 12310
industrial, industrial plant equipment handbook, 7254, 8798
see also Blast furnaces—Electric furnaces—Induction furnaces.
Furnaricola, *see* Lice.
Furnishings, *see* Household goods.
Furniture:
and fixtures, census of manufactures, 1963, manufacturing plants, location, 12699
Federal item identification guides for supply cataloging, supplements, 2939
household—
census of manufactures 1963, industry report, 3890
current industrial reports, 11464
wood, except upholstered, industry wage survey, 10872
miscellaneous, census of manufactures, 1963, industry report, 6899
production in Tennessee Valley, 2607
products, commodity transportation survey, shipper series, 216
retail furniture report, 3473
upholstery, expanded vinyl fabrics, standard of trade, 11089
see also Office furniture and equipment.
Furniture stores, *see* Stores.
Fused-fluoride electrowinning of thorium-base alloys, 10927
Fused salts, *see* Salts.
Fuselage, forward, of X–15 airplane and model, flow conditions, 11069
Fuses (ignition devices):
consolidated identification list for test evaluation, Federal supply catalog, Department of Defense section, 8809
variable timing, savings through direct procurement of components, GAO report, 6018
Fuses (safety devices):
single connector provides safety fuses for multiple lines, 6376
Fuste, Ricardo R., relief, 17447
Futures, *see* Commodity exchanges—Speculation.
Futures in Federal Government, 6973
Fuze covers, *see* Covers.
Fuzes, *see* Fuses (ignition devices)—Fuses (safety devices).

G

G.A.O., *see* General Accounting Office.
Gaarder, A. Bruce, improving instruction in public schools through title 3 of NDEA, 11874

Gabbay, Annie, relief, 1806
Gabelman, John W.:
examination of selected areas in Peru, 5398
reconnaissance for uranium in northeast coastal Brazil, 5399
Gabon:
background notes, 8043
mineral industry, minerals yearbook chapter, 1122
Gages:
dimensional metrology, subject-classified with abstracts, 12383
ocean wave direction, 8856
polymer deformation, measures thickness change in tensile tests, 7801
thin-film, measures low heat-transfer rates, 9484
see also Ionization gages—Liquid level gages—Piston gages—Pressure gages—Strain gages—Vacuum gages.
Gaging stations, Pacific Northwest, annual peak water discharge, 14745
Gagne, G. A., time-varying human operator dynamics, Project Icarus, 13717
Gahn, Randall F., determination of oxygen in potassium, 15135
Gaines County, Tex., soil survey report, 9712
Gaits, walking and running, in earth and simulated lunar gravity, 12339
Gajdusek, D. Carleton, slow, latent, and temperate virus infections, 13978
Gale, Fred E., AEC citation for outstanding service (remarks), 168
Galena, infrared spectroscopy studies of xanthate-galena system, 15021
Galerucine beetles, *see* Beetles.
Gales, *see* Storms.
Gallen, Mich., railroad accident, 12078
Gall, Lorraine S., study of normal fecal bacterial flora of man, 10942
Gallagher, Cornelius E.:
conference developments and supporting activity by Arms Control and Disarmament Agency, 1857
report of 9th meeting of Canada-United States Interparliamentary Group, 17326
Gallaher, John T., hydrology of alluvial deposits in Ohio River Valley in Kentucky, 4530
Gallatin County, Mont., geology and coal resources, 12025
Gallaudet College:
model secondary school for deaf to serve National Capital region, establishment and operation—
hearings, 15966, 16194
reports, 17273, 17526
Gallimore, William W., contracting and other integrating arrangements in turkey industry, 49
Gallinules, hunting, possession, transportation, importation in Alaska, 1966–67, Federal regulations governing, 14673
Gallium:
alloy films investigated for use as boundary lubricants, 9472
phosphide or arsenide, zinc diffusion problems, 9412
spectrophotometric determination in plutonium-gallium alloy, 3847
Galloway, Eilene, space treaty proposals by United States and U.S.S.R., 13189
Galloway, Emmet V., marketing information guide, annotated bibliography, 3184
Galois theory, Laplace-Galois transform in theory of series machines, USSR, study, 9154
Galura, Julieta G., *see* Bersamin, Julieta G.
Galvanic skin response, measurement with improved electrode paste, 6375
Galveston, Tex., commodity transportation survey, production area series, 8346
Gambart, AIC 58 C, lunar chart, 86
Gambell, Arlo W., chemical composition of rainfall eastern North Carolina and southeastern Virginia, 13414
Gambia:
background notes, 8044
mineral industry, minerals yearbook chapter, 9362
Game and game birds:
big game inventory, 782, 16315
migratory birds—
Bear River Refuge, 14657
conservation, protection, and propagation of endangered species, hearing, 7206
Federal regulations governing hunting, possession, transportation, importation, in Alaska, 14673
Game theory:
application of philosophy, USSR study, 9112
cybernetics application in economics, USSR study, 6212
NREC programs for gaming, logistics of national survival, 1982
Games:
market in France, 347
market in Italy, 7006
play with baby, guide for parents, 6770
Gamma globulin, immune, treatment and prophylaxis of infectious diseases, USSR study, 14822
Gamma rays:
cesium-137, in sand, differential energy and angle spectra determination, 11423
cobalt-60—
gamma radiation, biologic effectiveness as compared to 138-Mev protons, 94
irradiated rabbits, isolated ileum, sodium transport, 3792
pasteurization of fishery products, 4407
gamma radiation—
effects on newborn rat dorsal ganglia in vitro, observations, 3796
fruit and vegetables, dosimetry, tolerance and shelf life extension related to disinfestation, annual report, 8296
methods and instrumentation sources in biological experiment, USSR study, 918
post pulse spectrum, Operation BREN, 11420
radiation of fruits to extend market life, 45
safety during defectoscopy, regulations, Bulgarian study, 2226
sources at Rudjer Boskovic Institute, Yugoslav study, 961
used to induce polymerization of wood-plastic combinations, 12683
leakage from Ichiban critical assembly, 12671
liquid nitrogen-cooled detector system, mount for portability, 9455
neutron and gamma dosimetry, 142
spectrum measurements, SNAP 8 radiation effects test program, 7745
Gamma spectrometers, *see* Spectrometers.
Ganglia, *see* Nerves.
Ganga, juvenile, new developments in research and theory, 2515
Gansmuller, Erich, relief, 1904
Gansner David A.:
Kentucky forests—
Blue Grass Unit, 14718
Northern Cumberland Unit, 11996
Pennyroyal Unit, 14717
Southern Cumberland Unit, 4477
Western Unit, 14719
GAO, *see* General Accounting Office.
Garbage, *see* Refuse.
Garden Grove, Calif.:
area wage survey, metropolitan area, 12212
commodity transportation survey, production area series, 8347
Gardening:
publications, price list, 2519
spring planting, publications, list, 6566
see also Gardens.

Gardens:
ant control, 6745
home and garden bulletins, 38–40, 3750–51, 5290–91, 6745–49, 9818–19, 11352, 12602–603, 14137–138, 15445, 16925
home fruit, northern Great Plains, 3751
home garden, iris, growing, 5290
Gardner, Daniel E., foreign trade regulations of Sudan, 17057
Gardner, Dwayne E., land-rich or land-poor schools, 8846
Gardner, W.K., five-figure table of functions, etc., 12438
Garfield, Frank R., cycles and cyclical imbalances in changing world, 2025
Garfinkle, M., tensile behavior of tungsten crystals with rhenium in dilute solid solution, 4937
Garland, Thomas M., changing water-injection profiles by selective plugging, 4802
Garlic, *see* Wild garlic.
Garlock, Fred L., farmers and their debts, 11862
Garnishment, *see* Attachment.
Garns Mountain quadrangle, Idaho, geology, 9010
Garren, John F. jr., flight investigation of on-off control for V/STOL aircraft under visual conditions, 11063
Garrett, B. R., broad applications of diffusion bonding, 7731
Garrett, W. D., damping of capillary waves at air/water interface, etc., 6549
Garrison diversion unit, *see* Missouri River Basin project.
Garst, Caroline C., blood glucose levels in adults, United States, 1960–62, 15309
Garver, H. L., plumbing for home and farmstead, 6743
Garvey, James E., self-organising systems, 7969
Garvin County, Okla., thermal recovery and 2 waterflood projects, 16560
Gary, Howard L., water table characteristics under tamarisk in Arizona, 4453
Gary, Ind.:
commodity transportation survey, production area series, 6919
principal electric facilities, map, 7375
Garza, Luis R., pressures and forces acting on ring baffle under sloshing conditions, 6336
Gas:
adequate supplies at reasonable cost (remarks), 849
brazing retort manifold design concept may enhance uniform gas flow, 15101
chromatograph, subminiaturized, gives fast, efficient analysis, 10993
containing cloud of particles, heat transfer, 1185
diesel exhaust, determination of oxides of nitrogen in diesel exhaust gas by Saltzman method, 12249
diffuser facilitates withdrawal of cryogenic liquids from tanks, 13777
domestic supply, prospects (remarks), 13433
gasification, Lurgi-gasifier tests of Pittsburgh-bed coal, 4799
industry, injury experience, 15004
marketed production gains (address), 845
natural—
act, regulations under, 726, 3461
displacement from water-drive reservoir, 7708
industries, interstate and wholesale aspects regulated by explanation, 11927
industries, water use, 6289
liquids and liquefied refinery gases, mineral industry survey, monthly, 3245
liquids, census of mineral industries, 1963, industry statistics, 9951
liquids, minerals yearbook chapter, 1154
Gas—Continued
natural—continued
mineral industry surveys—
monthly, 3243
quarterly, 3244
minerals yearbook chapter, 1153
producers sales to interstate pipeline companies, 4381
production and processing occupations, employment outlook, 9307
safety of interstate pipelines, FPC report, 8770
United States, 1964, analyses, 15011
resources of gas and natural-gas liquids in U.S. and world, 2101
retail prices and indexes, 3474
steam gas installations, operations, USSR studies, 6224
underground gas storages, evaluation of ethylene as tracer, 10929
use in repressuring partly depleted oil reservoirs, material balance equation, derivation and application, 9383
see also Gas mains—Gases—Pipe lines.
Gas chromatographs, *see* Chromatographs.
Gas chromatography, *see* Chromatography.
Gas-cooled reactors, *see* Reactors (atomic).
Gas indicators, combustible, Wheatstone bridge type, maritime safety data, 16525
Gas Industry Week:
designate—
law, 11558
report, 11760
Gas-injection valve operates at high speed, 15111
Gas mains, gas distribution systems emergency construction, manual, 5375
Gas masks:
for respiratory protection against—
amines, 13681
phosphine, 13678
Gas pipes, *see* Gas mains.
Gas turbines, *see* Turbines.
Gasdynamic friction, *see* Friction.
Gases:
absorption cross sections for wavelengths less than 3000Å, 4826
acid fumarolic, from Kilauea Iki, Hawaii, 4523
arbitrary mixtures, equilibrium normal shock and stagnation point solutions, program, 4957
binary mixture in swirl and duct flows, concentration profile establishment, 9394
centrifugal device separates liquid from gas, 4887
coaxial mixing of dissimilar gases at nearly equal stream velocities, data comparisons and photographic observations, 2418
cold gas technique for jet exhaust impingement studies, 1242
combustion—
detonation initiation in alkane-oxygen mixtures, 15031
hot, magnetic control of flow in hydrogen-oxygen combustion at 14 atmospheres, 2425
concept for passive system to control gas flow independently of temperature, 13778
density, effect on work of breathing in man, 8216
dilute gas-solid suspensions, analysis and correlation of heat-transfer coefficient and friction factor data, 15192
dissimilar, coaxial flow, effects of momentum buffer region, 2424
dissolved in sea water, gas chromatography for evaluation, 12428
dual regulator controls 2 gases from single reference, 9474
exchange studies under rarefied atmospheric conditions, peculiarities, USSR study, 1023

Gases—Continued
flammable—
temporary lights, maritime safety data, 16523
temporary, portable, shipboard ventilation for control, maritime safety data, 16524
flow rate in piping systems, computer program to determine, 12331
hazards trainer, maritime safety data, 16520
high-pressure systems, Army technical manual, 12662
high-temperature gas transport properties, evaluation, 17873
hot gas ignition temperatures of hydrocarbon fuel vapor-air mixtures, 17866
ideal, three-dimensional flow past smooth bodies, 11083
in metals, determination, report, 5012
industrial, current industrial reports, 255
inorganic, current industrial reports, 5478, 8353
ionized—
international conference on phenomena in, USSR report, 16510
transport phenomena, initial value problem, 15062
leakage in brazed areas, eliminated by electroplating, 16637
multicomponent gaseous mixtures in near-equilibrium region, nonequilibrium channel flow, computing, 6460
nonequilibrium expansions of reacting gas mixtures, computer program for numerical solution, 10943
nongrey radiation effects on boundary layer of absorbing gas over flat plate, 16597
nonsteady flow with heat addition and shock perturbations, 17931
numerical calculations of gas-surface interactions, 10949
oscillatory combustion-gas flow, ethanol-jet atomization in combustor, 15147
planetary, helium-driven, tailored-interface operation of shock tubes, analysis, 12363
polar, and their equimolar mixtures, thermal conductivities, 7850
rarefied gas between plane parallel electrodes, flow of electrons through, 13825
reacting mixtures, chemical-equilibrium compositions, computing by reduction to single iteration equation, 13816
seeded, radiant heating in coaxial-flow gaseous reactor, 4943
thermodynamic properties of arbitrary mixtures—
calculation of specific heats with tabulated results, 15158
calculation with modified vibrational-rotational corrections, 15156
toxic properties of V gases, Polish study, 13531
see also Chemical warfare—Mine gases—*also* names of gases.
Gasification, *see* Gas.
Gaskets, composite, compatible with liquid oxygen, etc., 15125
Gasoline:
automotive, marketing, FTC industry conference, hearings, 4146
Government outlets, potential savings through greater use—
Defense Dept., GAO report, 13376
General Services Administration, GAO report, 17708
motor, petroleum products survey, 4787, 12236
tax credit, farmers, 14775
tax, increase in District of Columbia, hearings, 1936
Gasoline engines, *see* Engines.
Gasoline service stations, *see* Service stations.
Gasparovic, Vladimir, and wife, relief, 1891
Gaspers, Peter A., jr., flutter of orthotropic panels, 13844
Gass, Arthur E., sodium transport in isolated ileum from cobalt-60 irradiated rabbits, 3792
Gastonia, N.C., motor carrier accident, 872
Gastroenterology abstracts and citations (periodical), 5027
Gastrointestinal tract, gastric and intestinal temperature in man, utilization of radiotelemetry for study, 6209
Gastropods, paleozoic, from Moose River synclinorium, northern Maine, 17721
see also Snails.
Gates, O. R., procedures for chemical analysis of copper-base alloys, 12436
Gates:
hydraulic downpull forces on large gates, 18088
tainter, for flood spillway, engineering and design manual, 17632
Gateway to your future, 2311, 17828
GATT, *see* General agreement on tariffs and trade.
Gaudle, Danny D., electrochemical demineralization of water with carbon electrodes, 10674
Gauges, *see* Gages.
Gaulin, Richard P., design features affecting asepsis in hospitals, 7997
Gavurin, Edward I., tachistoscopic and WEFT techniques in aircraft recognition, 5069
Gaylord, William E., treatment of East Bay, Mich., with toxaphene for control of sea lampreys, 11977
Gazetteers, *see* Geographical names.
GE series, 3019
Gear drive automatically indexes rotary table, 15113
Gearing, run-in with chemical additive protects surface, 6395
Gears:
spur gear trains, analysis of friction torque, 6542
unique design provides self-lubrication, 2385
Gebhard, R., consideration of training of functions during design of operational equipment, 5067
Gedney, Donald R., Pacific Northwest economic base study for power markets, forest industries, 6875
Gee, Wing Yuen, *see* Wong, Wing Yuen.
Geiringer, P. L., brackish water conversion demonstration plant reports, 9036–37
Geis, Gilbert, juvenile gangs, 2515
Gelatin:
coated electrodes allow prolonged bioelectronic measurements, 7764
experiments, use of gelatinol as blood and plasma substitutes, USSR studies, 949
Gelder, Thomas F., cavitation similarity considerations based on measured pressure and temperature depressions in cavitated regions of freon 114, 13824
Geliotekhnika (periodical), translations, 9113, 9173, 10743
Geller, Miriam R., studies on electroconvulsive therapy, 11196
Gem County, Idaho, soil survey report of area, 1477
Gemini, *see* Spacecraft.
Gemini project, *see* Project Gemini (man-in-space project).
Gems, *see* Precious stones.
General Accounting Office:
appropriations, 1967, hearings, 8651, 13193
audits of Government contracts, 16340
Comptroller General decisions—
B-(series), 2778
digests, 2856
July 1, 1964–June 30, 1965, 16341
monthly, 2777

General Accounting Office—Continued
Comptroller General, nomination of Elmer B. Staats, hearing, 5814
Comptroller General, retirement, further provision—
law, 15710
reports, 11777, 15844
Defense Accounting and Auditing Division, reorganization, report, 12987
findings and recommendations for improving Government operations, 11610
GAO review (periodical), 17705
policy and procedures manual for guidance of Federal agencies, 803–804, 3016, 10617
professional careers, 17715
report 1965—
departmental edition, 7464
document edition, 7057
reports on auditing of defense contracts, policies, etc., report, 7098
transportation, manual for guidance of Federal agencies, 3015
General agreement on tariffs and trade:
Kennedy Round—
and world trade (address), 6619, 10016
beef exports, problems, hearings, 14505
Italy, Europe, and Kennedy Round (remarks), 8035
negotiations, resolution expressing sense of Congress, report, 13132
progress report (address), 6620
protocol for accession of Switzerland to agreement, 18124
renegotiation of schedule 20 with Canada, interim agreement, 6644, 7067
renegotiation of schedule 20 with Great Britain and Northern Ireland, interim agreement, 12529, 12860
trade agreement with Spain, 2581
General Counsel, Agriculture Dept., appropriations, 1967, hearings, 8648
General Counsel of Treasury Department:
digest of opinions, 1961
report for Coast Guard, 10381
General Electric Company, conceptual design of 50 MGD desalination plant, 12043
General Federation of Women's Clubs, 5-cent commemorative postage stamp (poster), 13921
General Motors Corp., adjustment assistance by certain workers, Tariff Commission report, 11288
General Services Administration:
administrator to accept title to John Fitzgerald Kennedy Library, authorize—
hearing, 14424
law, 17098
reports, 15864, 17467
appropriations, 1967, hearings, 8651, 13193
basic laws and authorities, GSA handbook, 10629
disaster control and civil defense in Federal buildings, guide for facility self-protection, handbook, 5094
disposal of surplus real property for public use, for private use, 9005
donable surplus property program, hearings, 4221
Government gasoline outlets, potential savings through greater use, GAO report, 17708
multiple-award contracting policy, GAO report, 7469
press releases, 3372
Public Printer to print for and deliver to GSA additional copy of certain publications, reports, 16132, 17280
report, 13387
supply sources, savings to AEC contractors through increased purchasing from, GAO report, 16346
Generation of random sample-covariance matrix, 4951
Generators, *see* names or types of generators.
Genes, structure and function, international symposium, 5030
Genetics:
animal, research, Rumanian study, 6240
current questions, Hungarian colloquium, 9082
effects of radiation, 15547
flower color inheritance in alfalfa, 6783
forest, annotated bibliography, 14715
microbial conference, Hungary, 6172
modern, pressing problems, seminar, summary, USSR study, 4651
Nikolay Petrovich Dubinin achievements in science, USSR study, 10821
scientific truth and development in Soviet Union, 986
USSR—
notes, 887
symposium, 12115
Genetics (USSR periodical):
translations, 1058, 9070, 9072, 9175–76, 10755–756, 10761, 12124
Genetics Workshop of Society of American Foresters, *see* Society of American Foresters, Genetics Workshop.
Geneva, Switzerland, International Labor Organization Conference, House delegates to attend, appoint, report, 12910
Gentry, Garl L., jet-induced lift losses on VTOL configurations hovering in and out of ground effect, 6415
Gentry, Thomas R., technique for rapid collection of balsam woolly aphid eggs, 14710
Geochemistry:
chemistry of iron-rich sedimentary rocks, 4520
contributions to geochemical prospecting for minerals (series), 13396, 16355
contributions to geochemistry (series), 9012, 12012
data, 4520
geochemical reconnaissance in Pequop Mountains and Wood Hills, Elko County, Nev., 16355
geochemistry of water (series), 13414
hydrologic basin, Death Valley, Calif., 7485
Geodesists, examination announcement, 14295
Geodesy:
accuracy of geodetic measurements in geological survey operations, pro and con, USSR study, 14907
deriving earth-centered datum from optical observations of earth's horizon from earth satellite, 7880
Hungarian achievements, 12176
Hungarian, conditions, problems, and plans, 16487
satellite, 1958–64, significant achievements, 17889
Soviet studies, 6166
spheroidal, solution of computing problems, USSR studies, 922
USSR geodetic network classification, 10836
Geodetic Explorer, *see* Satellites.
Geodetic instruments, Hungary, application, 14956
Geodetics, *see* Geodesy.
Geographers, employment outlook, 13594
Geographic bulletin, 6632
Geographic mobility, mobility of population of United States, 6925
Geographic Names Board:
decision lists, 2088, 7479, 13390
gazetteers, 814, 2089, 6027, 12010, 13391–392, 14743–744, 16354
Geographic note, GE series, 3019
Geographic reports, State Department, 15341
Geographical names:
Burma, standard place names, 12010
decision lists, 2088, 7479, 13390
Delaware, 13404
gazetteers, 814, 2089, 6027, 12010, 13391–392, 14743–744, 16354

Geographical names—Continued
Guatemala, 814
Korea, Republic, standard place names, 6027
Mali, 2089
Mauritania, standard place names, 16354
Niger, standard place names, 13392
resolution of Presidium of Supreme Soviet USSR on naming and renaming places and organizations, 950
Sierra Leone, 14744
Thailand, standard place names, 14743
Togo, standard place names, 13391
United States, decision lists, 2088, 7479, 13390
Geography:
acta geographica Sinica, translations, 10830, 16402
census, 1970, cooperative effort (paper), 9966
Communist China, translations from Ti-li, 2163
economic, symposium, geographical society of China, 16455
geographic bulletin, 6632
geographic note, GE series, 3019
geographic reports, State Department, 15341
geographical distribution of pines of world, 5293
geography as professional field, 10423
national defense education act, NDEA institute for advanced study, 5884A
teachers, advanced study, national defense institutes, manual, 5877
see also Zoogeography—*also* names of places.
Geography (Chinese periodical): translations, 2174, 4692, 7559, 7602
Geography and History, Pan American Institute of, *see* Pan American Institute of Geography and History.
Geologic names, lexicon of United States, Panama Canal and Pacific Islands, 9008
Geological journal (Ukrainian periodical): selections, 7603
Geological review (Chinese periodical): translations, 107, 12128–129, 12179, 13490, 14896, 16494
Geological Survey:
appropriations, 1967, hearings, 7113
bulletins, 815–816, 2090–92, 4510–14, 6029–30, 7480, 9006–15, 10631–636, 12011–16, 13394–404, 14746–748, 16355–357, 17716
circulars, 2093–2102, 4515–17, 7481–82, 9016–17, 10637–639, 13405, 14749–751
exploration assistance program, 13406
press releases, 3373
procurement of equipment for implementing automation of water data records, GAO report, 13381
professional papers, 817–821, 2103–4, 4518–25, 6031–36, 7484–88, 9018–20, 10641–645, 11017–27, 13407–413, 14752, 16359–361, 17717–723
publications, 822, 17724
monthly list, 3264
research 1965—
chapter A, 6035
chap. D, 821
research 1966—
chap. B, 12027
chap. C, 13413
stratigraphic nomenclature, changes, 4514, 17716
water resources national data network, 7483
water supply papers, 823–832, 2105–6, 4526–30, 6037–44, 7490–91, 9021–25, 10647–652, 12028–33, 13414–417, 14754–756, 16362–364, 17725–731.
Geologists:
employment outlook, 9233
examination announcement, 6974
Geology:
Alsea River basin sites, Oreg., 17727
Arabian Peninsula, 17723
areal and aeroradioactivity survey—
Denver area, Colo., 12670
District of Columbia, 9917
Ohio and Indiana, 11418
Aurora area, St. Louis County, Minn., 7491
bedrock, of Grand Lake area, Aroostook, Hancock, Penobscot, and Washington Counties, Maine, 815
Beluga-Yentna region, Alaska, 14746
Brazilian Basin, geological structure of bottom, USSR study, 4638
Bridgewater quadrangle, Aroostook County, Maine, 4510
Bulgaria, associations and enterprises for geological research, 9178
Coeur d'Alene district, Shoshone County, Idaho, 819
cold regions, aspects, 8249
contributions to economic geology (series), 816, 4512–13, 6029, 9013, 10633, 12013, 14746
contributions to general geology (series), 815, 2092, 13398–400
damsites on Flathead River, Lake and Sanders Counties, Mont., 2105
economic—
Fort Meade quadrangle, Fla., 12011
Idaho Springs district, Clear Creek and Gilpin Counties, Colo., 9011
Florida quadrangle, Puerto Rico, 13399
Fort Belknap Indian Reservation, Mont., 834
foundation design of buildings and other structures (except hydraulic structures), procedures, Army technical manual, 130
Garns Mountain quadrangle, Bonneville, Madison, and Teton Counties, Idaho, 9010
general geology of Death Valley, Calif. (series), 7484–85
Geological Survey research, 821, 6035, 12027, 13413
geology and coal resources, Livingston coal field, Gallatin and Park Counties, Mont., 12025
geology and mineral deposits of Mosheim and Johnson anticlines, Greene County, Tenn., 4512
geology and surface effects, Nevada test site, Project Handcar, 3849
geology of Arabian Peninsula (series), 17722–723
geology of selected quadrangles in Massachusetts (series), 9006
geomorphic approach to sediment yield of Castaic watershed, Calif., 2103
Guam, Mariana Islands (series), 4519
Hames Valley, Wunpost and Valleton quadrangles, Monterey County, Calif., 13398
Kayenta and Chilchinbito quadrangles, Navajo County, Ariz., 816
Kermit and Varney area, Ky., 9019
La Sal quadrangle, San Juan County, Utah, and Montrose County, Colo., 7486
lexicon of geologic names, 9008
Livingston area, southwestern Montana (series), 4522
marine, of northeastern Gulf of Maine, 10004
Minas Gerais, Brazil (series), 4518, 12018
Monlevade and Rio Piracicaba quadrangles, Brazil, 12018
Moscow State University, news, 13523
Nehalem River basin, water power sites, 826
North American—
abstracts, 6028
bibliography, 14748, 16357
northern and central Johnson County, Wyo., 12028
northwest quarter of Anaconda quadrangle, Deer Lodge County, Mont., 12013

Geology—Continued
Pico de Itabirito district, Minas Gerais, Brazil, 4518
Powell River area, Claiborne and Union Counties, Tenn., 13400
Prescott and Paulden quadrangles, Ariz., 818
Project Pre-Schooner, preshot investigations, 151
publications, price list, 5096
Puerto Rico, aeroradioactivity survey, 11419
Ranson quadrangle, Lackawanna, Luzerne, and Wyoming Counties, Pa., 13397
research, decree on supervision and implementation, Hungary, 2188
shorter contributions to general geology (series), 820, 4521, 6034, 9020, 10645, 12024
Soviet studies, 4683
structural, Death Valley, Calif., 7484
surface, and aeroradioactivity survey of parts of San Francisco region, 11417
surficial, Athol quadrangle, Mass., 9006
symposium on geomorphology and economic geography held by geographical society of China, 16455
Temple Mountain district, Emery County, Utah, 9007
Ukrainian geological journal, selections, 7603
USSR articles, 1066
USSR, research and conferences, 6215
White Sands Missile Range and vicinity, northern part, N. Mex., 829
Wind River basin, central Wyo. (series), 17720
Winnebago County, Wis., 10649
Yemen, 17722
see also Stratigraphy—Triassic period.
Geomagnetism, *see* Terrestrial magnetism.
Geometry:
configuration geometry, effects on pressure coefficient and section normal-force coefficient distributions for 2-stage launch vehicle, supersonic investigation, 15139
geomagnetic geometry tables, 7725
parallel groove, for incompressible fluid, flow and pressure field analysis, 15201
see also Microgeometry.
Geomorphology, *see* Geology—Physical geography.
Geophysical prospecting, *see* Prospecting.
Geophysicists:
employment outlook, 9233
examination announcement, 14296
Geophysics:
American Meteorological Society abstracts, 13892
earth's crust, USSR studies, 954
experimental and theoretical geophysics (series), 7480, 9009
geophysical abstracts, 3020
geophysical surveys, Bridgewater quadrangle, Maine, 4510
geophysics and space data bulletin, 3021
geophysics and space environments, handbook, Air Force, errata, 11376
magnetic fields of marine telluric currents, USSR study, 13525
photography in airborne geophysical surveying, USSR study, 13449
recent studies, USSR, 6142
marine, 6126
Rumania, development in last 2 decades, 14895
Soviet bloc research (periodical), 3524
Soviet research in Mali, USSR study, 935
Soviet studies, 4683
USSR articles, 1066
Georgaras, Demetrios K., relief, 12871
Georgaras, James K., *see* Georgaras, Demetrios K.
George, Betty, educational developments in Congo (Leopoldville), 14550
George, Charles W., fire retardant viscosity measured by modified Marsh funnel, 8956
George, J. H. B., transport properties of ion exchange membranes, 4553, 17738
George Rogers Clark National Historical Park:
establish—
law, 15707
reports, 10179, 13141
George, Walter F., Lock and Dam, *see* Walter F. George Lock and Dam.
George Washington Memorial Parkway, Mount Vernon section, general information, 15222
Georges, Thomas M., numerical simulation of ionospheric wave interaction experiments, 1300
Georgetown, D.C., *see* District of Columbia.
Georgetown, S.C., port, 13294
Georgetown University, charter, amend to clarify corporate name, report, 17414
Georgia:
census of business, 1963 retail trade, area statistics, errata, 187
census of manufactures, 1963, manufacturing plants, location by county, industry and employment size, 14258
Central Georgia Soil and Water Conservation District, pasture and farm pond replace cotton (colored poster), 9669
climatological data, 2751
county business patterns, 3913
electric rate book, 706
export expansion program results (address), 324
inert dusts for protection of shelled corn from insect attack, evaluation, 14109
landings, fish and shellfish, 3022, 16296
life tables, 18018
mineral industry, minerals yearbook chapter, 1123
northwest, bauxite deposits, 10631
pegmatites, selective flotation of mica, 16575
postal map, 13930
precipitation data, hourly, 3045
southwest, grain drying and storage, 67
water, use, occurrence, problems, etc., 827
women, labor laws, summary, 14089
Georgia Nuclear Laboratories:
Radiation Effects Reactor—
components and sub-assemblies, 7747
electrical insulation materials, 7746
gamma spectrum measurements, 7745
Georgoulis, Joanna K., relief, 8510, 11534
Geothermal energy:
general information, 4516
steam deposits and associated resources, disposition—
hearings, 13047
report, 15933
Gerber, Carl R., Plowshare, 11443
Gerhards, C. C., physical and mechanical properties of molucca albizzia grown in Hawaii, 8970
German language:
Foreign Service Institute, basic course, 5153
military dictionary, 1658
German literature, classification, Library of Congress, 10891
Germans, Volga, in Soviet central Asia, 14934
Germany:
alien amateur radio operators, authorization to operate, agreement, 18125
Democratic Republic, *see*, below, Soviet Zone.
East, *see*, below, Soviet Zone.
Federal Republic—
air service, lease of equipment, agreement, 6642
background notes, 11236
commercial policy and German-American relations (address), 8034
double taxation, convention, protocol, 6650
report, 1887

Germany—Continued
Federal Republic—Continued
economic statistics, handbook, 3031
establishing business, 12774
labor conditions, 13632
loan of vessels, extension, agreement, 2588
manpower policy and programs, 16515
mineral industry, minerals yearbook chapter, 10914
natural resources mission to, special report to the President, 12046
photographic equipment and supplies, 341
support for armed forces in United States in emergencies, agreement, 6651
titanium dioxide manufactured by Farbenfabriken Bayer A. G., notification on investigation, 8096
vested paintings, transfer in trust for Weimar Museum—
law, 17117
reports, 15921, 16154
weapons, obsolete German, donate to—
law, 15716
reports, 10141, 13174
Soviet Zone—
background notes, 8052
cathode ray technology, development trends, 12160
church and state under Communism, 7219
cybernetics in machine building industry, 12180
labor conditions, 13631
mineral industry, minerals yearbook chapter, 2324
satellite camera development, Ilmenau Technical College, 1033
West, *see*, above, Federal Republic.
Germination:
eastern white pine seed as influenced by stratification, 798
paper birch, 4469
seed, light effects, experiments, etc., 8150
sugar maple and yellow birch, influence of temperature and early spring conditions, 5983
Gerrity, Martin V.:
beef export trade of Central America, 2054
Canada's meat and livestock industry, 10551
Gertsma, Lawrence W., evaluation of one type of foldable tube, 2404
Gertz, D., unified digital instrumentation and control system for nuclear power plants, feasibility study, 15536
Gerver, Joan, family therapy, selected annotated bibliography, 7929
Get ready for college and go, 5674
Gettysburg National Military Park, general information, 15223
Getzendaner, C. W., European earwigs, 6746
Geukens, F., geology of Arabian Peninsula, Yemen, 17722
GF series, 3933–34, 6933, 8367, 11476, 12728
Ghana:
agricultural commodities, agreement, 12537
background notes, 16848
executives march ahead, progress by international corps from U.S. business, 14781
farm products, supply and demand projections to 1975 with implications for U.S. exports, 7294
mineral industry, minerals yearbook chapter, 4764
GI bill-of-rights, *see* Veterans.
GI loans, *see* Loans.
Giachino, Fred E., air reservist, 2661
Giannone, Mary R., relief, 17428
Gibson, Burdett, challenge of longwall mining, 8313
Gibson, O. Hoyt, sales management for manufacturers, 9644
Gibson, Pryce B., white clover, 14131
Giesler, Raymond, general hospitals admitting psychiatric patients, 15303
Gift tax, *see* Inheritance and transfer tax.
Gifts:
expenses, rules for deducting from income tax, 2123
foreign, acceptance by government officials and employees, establish basic uniform standards, reports, 10286, 17238
holiday gift list for readers, 17991
Gigiyena i sanitariya (periodical):
articles, 6174
translations, 7552
Gigiyena truda i professional'nyye zabolevaniya (periodical):
translation, 12187
Gila River, water supply outlook and snow surveys, 3687
Gila trout, *see* Trout.
Gilbert, Adrian M., stand differentiation ability in northern hardwoods, 799
Gilbert and Ellice Islands, Ocean Island, mineral industry, minerals yearbook chapter, 6297
Giles, H. L., hypersonic pressure and heat transfer tests on flat plate, etc., 15048
Gilkey, Millard M., water requirements and uses in New Mexico mineral industries, 2319
Gill, Clark C., education and social change in Chile, 11871
Gill, Thomas G., regional wood use by manufacturing industries, 8967
Gill, William N., reverse osmosis systems for desalination, 9042
Gillespie, Arthur S., jr., dissolved-oxygen analyzer for oceanographic use, final report, 12681
Gillespie, Karen R., footwear, 6601
Gilliland, Whitney:
nomination, hearings, 4215
remarks, Sept. 26–28, 1966, 15612
Gillingham, Kent K.:
primer of vestibular function, spatial disorientation and motion sickness, 14189
training vestibule for aerospace operations, 91
Gilmore, John S., defense industry diversification, analysis with 12 case studies, 6825
Gin Bayou:
flood control, engineer report—
departmental edition, 4333
document edition, 4064
Gingham, general imports and manufactures, 8321
Gingrich, Samuel F., shortleaf pine in Missouri, 2 methods of thinning, 795
Ginning, *see* Cotton gins and ginning.
Ginnings, R. M., digital computer processing of PFM telemetry data, 7722
Ginsberg, Eli, expanding employment in pluralistic economy, 17803
Girl Scouts of United States of America, report, 12852
Girls:
counseling, new approaches in 1960's conference report, 1561
counseling toward new perspectives, 12569
every girl needs chance to become somebody, Job Corps may be your big chance, 7277
high school, future jobs, 11328
job training suggestions, 2632
vocational guidance, Women's Bureau and Office of Education, consultation with State school guidance officials, 1563
Giron, David J., radioisotopic labeling of poliovirus, etc., 9871
Gitlin, Joseph N., population exposure to X-rays, 18067
Giulianetti, Demo J., longitudinal and lateral-directional aerodynamic characteristics of large-scale, V/STOL model with 4 tilting ducted fans arranged in dual tandem configuration, 12361

Giza, Richard, NIH obligations to institutions of higher education, 12477
Glacial period:
great ice age, general information, 10640
late Pleistocene marine paleoecology and zoogeography in central California, 16361
Glacier National Park, general information, 6508
Glaciers, fluctuations of terminus of Moltke Glacier, 12650
see also Moraines.
Glackin, J. J., fastener materials for space vehicles, 4814
Gladiolus, production and sales, etc., 8089
Gladwell, Lloyd, starting and managing small retail drugstore, 9645
Glancy, David M., description of area system for Northeast Corridor transportation project, 8428
Glands, *see* Adrenal glands.
Glaser, Daniel:
alcoholic offender, 12566
control and treatment of narcotic use, 14079
personal characteristics and parole outcome, 14080
sentencing and parole process, 14081
violent offender, 14082
Glaser, Rudolf F., vibration analysis of clustered launch vehicles, 1260
Glass, Robert L., mortality of New England dentists, 18003
Glass:
devitrification of lithium disilicate glass, 2354
fibrous glass, 1965, current industrial reports, 15584
filament-wound composites, microvoids, origin and removal, 2494
flakes as liner for fiber-glass cryogenic propellant tanks, 4893
flat, current industrial reports, 2818, 5477
glass-resin composites, surface chemical aspects, 2494
helium permeation, in vacuum systems, special treatment reduces, 15102
industry, machinery, industrial plant equipment handbook, 10388
insulation, manufacture of cast microwire, USSR, 13493
porous, makes effective substrate for ozone-sensing reagent, 2383
precision winding of cylindrical composites with shaped glass filaments, 15038
products—
census of manufactures, 1963. 1704 manufacturing plants, location, 11455
commodity transportation survey, shipper series, 217
sheet, drawn or blown, Tariff Commission report, 11287
window, optical absorption coefficients of fused silica, 6440
see also Stained glass—*also* names of manufactured articles and materials.
Glass-crystal transformation of nepheline and wollastonite and heat formation of nepheline, 10922
Glass fibers:
aluminized fiber glass insulation conforms to curved surfaces, 4861
container shells form contamination-free storage units, 11011
initiation of failure mechanisms in glass-resin composites, 15039
production, methods and applications, USSR study, 16438
Glasser, W. A., mimimax studies, 15054
Glassman, Arthur J., effect of turbine-coolant flow on Brayton-cycle space-power system thermodynamic performance, 12354
Glassware, consumer, scientific, technical, and industrial glassware, current industrial report, 5475
see also names of articles manufactured from glass.
Glassworkers, *see* Glaziers.
Glaucoma, Air Force policy, 6812
Glaziers:
apprenticeship and training, national standards, 14202
employment outlook, 9218
Gleeson, Geraldine A., age patterns in medical care, illness, and disability, United States, 12488
Gleim, Paul, epitaxial structures for radiation resistant silicon solar cells, 10941
Glenn, W. G., precipitin response to human serum by rabbit population, variation in response, etc., 9870
Glenn Creek, drainage basin near Fairbanks, Alaska, hydrologic studies, 8244
Glennon, B. M., bibliography on atomic transition probabilities, 7916
Glicksman, M. E., dynamic effects arising from high-speed solidification, 1363
Glidden, David B., relief, 4077, 14341, 16037
Gliders (aircraft):
imported, certificates of airworthiness—
agreement with Finland, 5159
agreement with Poland, 1499
M2–F1 lifting body flight vehicle, wind-tunnel investigation of longitudinal aerodynamic characteristics, 6468
Globulin, γ-globulin properties, Soviet research, 10752
Glomerulonephritis, selected references, 18070
Glorig, Aram, hearing levels of adults by age and sex, 2544
Glossaries:
abbreviations used in Latin American press, 10750
aerospace, 9843
combined, of standardized items and terms presented in handbooks in State educational records and reports, series, 13269
oceanographic terms, 15239
power and rate terms, abbreviations, etc., 4382
prepaid dental care, 1430
space terms, 12279
Gloucester County, Va., excavations at Clay Bank site, 5040
Gloves:
current industrial reports, 3921
leather, census of manufactures, 1963, industry report, 5443
see also Rubber gloves.
Glucose:
blood glucose levels in adults, 15309
blood, in anesthetized dog, effects of hydrazine, 9864
tolerance responses in young adults of sharply contrasting periodontal status, 6815
Glue, failure in glue block shear test, device for estimating, 2058
Glushkov, Viktor M., Lenin prize winner, interview about cybernetics, 14857
Glycerides, total, in human serum, simplified test tube method for analysis, 12640
Glycogen, muscle and liver, in anesthetized dog, effects of hydrazine, 9864
GNL, *see* Georgia Nuclear Laboratories.
Goats:
dairy, for home milk production, 11354, 15446
scrapie seminar, report, 11338
Gobbledygook has gotta go, 9341
Goble, Ross L., motion of clamshell-type heat shield on deployment from parent vehicle in atmosphere, 7831
Goddard, Robert H., memorial statue, erect, law, 422

239–221—67—No. 863——20

Goddard Space Flight Center:
automatic data processing equipment, economy of operations, 4144
contributions to May 1965 COSPAR meeting, 13801
Goddard '65, year in review, chronology, etc., 9389
publications, 1964 collection, 11084–85
Godfrey, Horace D., remarks, Feb. 16, 1966, 6738
Goditiabois-Deacon, Laura M., relief, 1905
Gogel, Walter C., problems in depth perception, method of simulating objects moving in depth, 9938
Goiter, disease, cortico-visceral pathogenesis theory, USSR study, 13483
Gold:
geochemical anomaly in Cortez district, Nev., 14751
mine production, monthly, 3023
mining industry —
production incentives—
hearing, 14486
report, 16119
revitalization act, hearings, 13046
ores, census of mineral industries, 1963 industry statistics, 15575
production and consumption, report, 12262
regulations, 9748
United States movements, 5503
monthly, 3629
visors, evaluation, 14195
wetting by water, 9595
Gold (money):
certificates, Federal reserve banks to maintain against deposit liabilities, eliminate requirement, report, 1820
foreign gold & exchange reserves, international liquidity, current trends, 10416
gold markets, United States official operations, 11304
interest rates, gold, and balance of payments (remarks), 731
Mint Bureau, report, 12262
Gold Mines Assistance Commission, establish, hearings, 13046
Gold star lapel buttons, *see* Lapel buttons.
Goldberg, Arthur J., statement, Sept. 22, 1966, 18118
Goldblith, S. A., simultaneous radiation-heating treatment of precooked marine products, 11425
Golden eagle, *see* Eagles.
Golderos, Angel F., relief, 1895
Goldman, David E., Naval Medical Research Institute, 13657
Goldman, Joseph L., role of Kutta-Joukowski Force in cloud systems with circulation, 12563
Goldman, Louis J., nozzle expansion and flow characteristics of potassium vapor, 4953
Goldner, B. H., research on ion transport across microbial membranes, 4554
Goldner, Lester, paper, Mar. 28, 1966, 13956
Goldsmith, Richard, stratigraphic names in New London area, Conn., 12014
Goldstein, Benjamin, MDTA training program, 1963 and 1964, comparison, 2283
Goldstein, Charles M., single-collision model for electron-beam currents between plane electrodes, 1250
Goldstein, Harold, education and work life in changing economy, 12222
Golley, Frank B., cesium 137 facility for ecological research, development, 8293
Gomes, John M.:
electrolyte life in winning tungsten from scheelite, 12253
electrowinning tungsten in halide and phosphate electrolytes, 7711
Gomez, Anselmo S. Alvarez-, *see* Alvarez-Gomez, Anselmo S.
Gomez, Gustavo E., relief, 16014
Gonzalez, Hilda W. Perez de, *see* Perez de Gonzalez, Hilda W.
Gonzalez-Mora, Antonio, and wife, relief, 16024
Good, Philip C., electrodeposition of aluminum from fused-salt electrolytes containing aluminum chloride, 10923
Good, R. Earl, electron attachment to atomic fluorine in thermally ionized air, 12274
Goode, Robert J.:
fracture toughness characteristics of some titanium alloys for deep-diving vehicles, 1362
metallurgical characteristics of high strength structural materials, quarterly report, 16769
Goodlettsville, Tenn., motor carrier accident, 10697
Goodman, George E., community health planning grants for heart disease, cancer, and stroke, 14757
Goodman, John M., ionospheric parameters derived from Echo II radar returns during solar minimum conditions, 12442
Goodsell, Wylie D.:
costs and returns—
commercial farms by type, size, and location, 12597
commercial farms, long-term study, 8167
western livestock ranches, 14529
Goodson, Cora L., temperature, pulse, and respiration measurement, programed notebook for nursing assistants, 13995
Goodson, Kenneth W., longitudinal aerodynamic characteristics of flapped tilt-wing 4-propeller V/STOL transport model, 6424
Goodwin, Charles, Navy contract law, 12444
Goodwin, Robert C.:
addresses, etc.—
Jan. 10, 1966, 4331
Sept. 27, 1966, 16244
Goodyear, W. H., computation of cartesian coordinates and partial derivatives of two-body problem, 16589
Goodykoontz, Jack H., local heat-transfer coefficients for condensation of steam, 6466
Goolsby, O. Halbert, agricultural exports from temperate and tropical zones, changes in prices and foreign exchange earnings, 7293
Goose Lake, accessibility field methods and logistics, 1638
Gooseberries, *see* Chinese gooseberries.
Gopin, A. J., cold gas technique for jet exhaust impingement studies, 1242
Gordan, Winsome E., relief, 1816
Gordeyev, Nikolay P., Soviet scientist, biography, 17796
Gordon, C. H., value of mature corn for silage, 14107
Gordon, Lincoln, nomination, hearing, 5809
Gordon, Margaret S., retraining and labor market adjustment in Western Europe, 1080
Gordon, Tavia, hypertension and hypertensive heart disease in adults, 9633
Gordon County, Ga., soil survey report, 1478
Gore, Lillian L., survey of early elementary education in public schools, 7325
Gorgas Memorial Laboratory:
annual report, 4055
audit report, 4055
Gorham, J. R., minks, diseases and parasites, 28
Gorman, John L., soil survey report, Berkeley County, W. Va., 15334
Goryaynov, K. E., Soviet construction engineer, biography, 10793
Gosselin, Dean H., relief, 16050
Goudy, William H., woodcock status report, 11979
Gould, Harold A., automatic data processing equipment, economy of operations, Goddard Space Flight Center, 4144

Gould, Marie L.:
blacktail deer and Roosevelt elk, bibliography, 10616
bluebunch wheatgrass (Agropyron spicatum), 1920–64, bibliography, 4436
shelterwood harvest methods and results for coniferous species, bibliography, 10613
soil moisture, investigations on grass-and shrub-land soils, 1942–64, bibliography, 4482
Government:
and food industry (address), 37
and petroleum industry (remarks), 6060
business economist and Government (remarks), 15642
business relations, partnership for progress (remarks), 7012
can help you improve educational quality and opportunity, 4307
census, final reports, 209–210
census publications—
price list, 5101
recurrent reports scheduled, announcement, 14281
city finances, 11476
Constitution and Government, Federal textbook on citizenship, 6052
contingent liabilities, report, 17316
creative federalism functions, close relationship among Federal, State, and local areas (remarks), 14151
Federal—
action in disaster, Hurricane Betsy, 7327
automatic data processing equipment, 12689
careers in statistics, examination announcement, 297
Federal, and public libraries, 10-year partnership, 13419
impact of research and development policies on scientific and technical manpower, hearings, 1949
inspection service facilities at international airports, 11387
inventory of automatic data processing equipment, 1689
minority group employment, 1965, study, 310
organization and employees, title 5, U.S. Code, enact—
law, 15733
report, 13157
paperwork procedures, hearings, 11674
price statistics, 14371
research and development programs, decision making process, report, 12920
research and development programs financed by, investigation and study, authorization, report, 4182
research programs, conflicts with goal for education—
committee print, print additional copies, reports, 10200, 10206, 17473
hearings, print additional copies, report, 10207
role in science and technology (remarks), 170
science, humanities, and Federal government, partners in progress (remarks) 8305
system, intergovernmental cooperation (remarks), 11303
use of polygraphs as lie detectors—
hearing, 4133
report, 15930
government and science, hearings, 1866
government finances, GF series, 3933–34, 6933, 8367, 11476, 12728
industry cooperation (address), 15562
local—
construction expenditures, 3935, 11477
Federal contributions available for civil defense, 11491
law enforcement, Federal assistance, hearings, 582, 14429
Government—Continued
local—continued
retirement systems, early retirement provisions, 6610
role in economic development of rural areas, research needs and opportunities, 13262
unshackling, survey of proposals by Advisory Commission on Intergovernmental Relations, report, 15843
metropolitan councils of governments, information report, 16915
Miniskaya oblast, party and local government cooperation, USSR study, 9128
new programs to combine Federal and local resources for improved public services (address), 9806
occupations, employment outlook, 9302
operations, improving, General Accounting Office findings and recommendations, 11610
Our American Government, what is it? how does it function? print as House document, reports, 17279, 17545
our Government—
becoming a citizen series, 4543
Federal textbook on citizenship, 7504
personal income taxes, Federal-State coordination, 3723
reports, U.S., popular names, catalog, 16546
science, government, and public policy, panel—
papers, 8682
proceedings, 5709
services—
aids to modernization, guide, 1690
urgent need for talent, 16540
State—
Federal contributions available for civil defense, 11491
finances, 1965—
compendium, 8367
summary, 6933
State and local—
special studies, 6938
tax revenue, quarterly summaries, 3448, 6935, 9968, 11478
use of satellite communications—
hearings, 15973
report, 17345
womanpower, shortage or surplus? assessment in Boston, conference report, 16912
see also Coalition governments—Intergovernmental relations—*also* headings beginning Government.
Government contracts:
administrative debarments of contractors as affecting small business, report of Attorney General, 1928
Atomic Energy Commission facilities, contractors savings through increased purchasing from GSA supply sources, GAO report, 16346
audits by GAO, 16340
boards of contract appeals, operation and effectiveness—
analytical study, 13069
print as Senate document, report, 13171
hearings, 11833
buildings and land, long-term leasing, Defense Dept., GAO report, 16344
chemical milling inventions, use by Govt. contractors, GAO review, 7478
code of Federal regulations, 5949, 7404, 8915–16, 10497, 11935
contract administration services, Defense Supply Agency manual, 4250, 7261, 10393, 13252
contract pricing, Armed services procurement regulation manual, 7252
contractor employees, preferential allowances paid at Hanford Works, Richland, Wash., GAO report, 10623

Government contracts—Continued
contractor performance evaluation (development and production), guide, 14518
contractors, discrimination in employment practices on grounds of race, religion, or national origin, prohibit, opinion of Attorney General, 7638
contractors guide for civilian agencies dealing with Army Materiel Command, etc., 5345
contractors to give affidavit of payment of subcontractors, report, 15888
defense contract audits by GAO, report, 7098, 12987
defense contracts, charges to company operated and chartered aircraft, GAO report, 13379
Dyna-Soar contract cancellation, effects upon employees of Boeing Co., case study, 3809
equipment, maintainability demonstration, military standard, 8813
general safety and health standards for Federal supply contracts under Walsh-Healy public contracts act, regulations, 12558
identical bidding in public procurement, report of Attorney General, 1074, 17797
International Development Agency, procurement regulations, 2132
labor compliance manual, direct Federal and Federal-aid highway construction, amdt., 15315
McNamara-O'Hara service contract act of 1965, guide, 8111
motor vehicle leasing for use of contractors, Defense Dept., GAO review, 16348
multiple-award contracting policy, GAO report, 7469
NASA procurement directive, 3231
NASA procurement regulation, 3232
National Science Foundation, 2475
Navy contract law, supplement, 12444
Navy prime contractors, selling to, 1387
negotiated, examination-of-records clause requirement, exempt foreign contractors, law, 15774
patent policy—
hearings, 1945
report, 14458
postaward audits, need for in Defense Dept. awards, GAO, report, 6014
Post Office Dept. use of contractor-furnished personnel, GAO report, 4507
procurement—
administration procedures, 5341
code of Federal regulations, 7403
economic impact—
background material, 5592
hearings, 10093
property and nonpersonal services by executive agencies, amend Federal property and administrative services act of 1949, law, 443
proposal evaluation and source selection, 9884
regional, hearings, 7237, 14506
small business participation, hearing, 11834
small business representatives conferences with Senate Small Business Committee staff members, 7238
small business subcontracting and set-aside programs, hearings, 7165
radiation safety and health standards for Federal supply contracts under Walsh-Healey public contracts act, regulations, 11313
renegotiation act of 1951, as amended—
regulations, 3462
text, 18089
renegotiation act of 1951, extend—
law, 12819
reports, 11617, 12909, 16071
written statements, 10273
Government contracts—Continued
renegotiation rulings, 15318
star route mail, cost-of-living adjustments, provide—
reports, 1834, 11781
veto, 12859
synopsis of proposed procurement invitations, subcontracting leads, etc., 2760
system engineering management standard for AFSC system acquisition programs and projects, 6796
TFX contract investigation, hearings, index, 10348
Univac Division, overhead costs charged, GAO report, 9000
Walsh-Healey public contracts act—
guide, 1531
sheltered workshops, questions and answers, 15417
Government control, *see* Government regulation and control.
Government documents, *see* Government publications.
Government employees, *see* Government officials and employees.
Government employment, *see* Employment.
Government offices:
accounting adjustments between appropriations, authorize—
law, 15698
report, 11778
accounting policy and procedures, GAO guidance manual, 3016
administrative practices and procedures—
amend act, report, 11763
investigation—
authorization, report, 4186
report, 5782
agencies with disaster assistance responsibilities, guide, 4322
air pollution originating from Federal installations, control, executive order, text and standards, 11181
appropriations, 1966, supplemental, proposal, 8688
appropriations, 1967, supplemental, proposal, 17406
attorneys' fees for services in proceedings before administrative agencies, arbitrary limitations, remove—
hearings, 11819
report, 13124
automatic data processing equipment, economic purchase, lease, etc.—
law, 408
report, 563
communications satellite programs, relationships, hearings, 7201
credit programs, study, print additional copies, reports, 12999, 17474
dollar savings possible through expanded use of foreign currencies to transport personal effects abroad, GAO report, 14728
drug activities, interagency coordination, report, 8759
electronic data processing systems, management and organization, procurement, etc., hearings, 13055
executive agencies, procurement of property and nonpersonal services, amend law, law, 443
executive branch—
appropriations, 1967, amendments, 8507
reorganization, study, authorization, report, 4181
Federal agencies with primary civil rights responsibilities, 4327
Federal aids to communities, handbook, 11856
Federal installations, disposal of sewage and industrial wastes, report, 12913
Federal services to help communities plan with youth, 60

Government offices—Continued
Federal-State-local cooperative arrangements for selected statistical activities, programs and problems, statements, 14244
files maintenance and disposition, DSA manual, 5849
financial agencies, policies and practices, hearing, 17368
general Government matters—
appropriations, 1966, continue—
laws, 395
report, 1836
appropriations, 1967, continue—
laws, 15704, 17110
reports, 15856, 17242
Government organization manual, 13327
independent offices, appropriations, 1967—
hearings, 8651, 13193
law, 15734
reports, 8638, 14401, 16090
information and records, regulating availability, report, 11763
Interagency Committee on Occupational Classification, Budget Bureau, collection and classification procedures and plans for future work, progress report, 14245
interagency coordination in environmental hazards, hearings, 4223, 5813, 7214
report, 13156
interagency management information systems, need for, etc., 15561
interagency training programs, 9996
interdepartmental activities overseas, coordination by Sec. of State, 8779
invasions of privacy, hearings, 1946, 11817
joint financial management improvement program, annual report, 8981
manpower management, practices, etc., improvements, 1864, 8677, 17391
manufacturing activity, 1963 census of manufactures, 3907
operation of elementary and secondary schools by Federal agencies, investigations and study, report, 17298
organization and employees, title 5, U.S. Code, enact—
law, 15733
report, 13157
organization of Federal executive departments and agencies—
chart, 8776
report, committee print, 8777
paperwork, how to cut, report, 17257
policies and procedures, General Accounting Office guidance manual, 803–804, 10617
records and papers, disposition, reports, 504, 4089, 5633, 5639, 5667, 7082, 8606, 10118, 10168, 12947, 15836, 17210, 17224
regulatory and enforcement agencies, activities relating to small business, hearings, 15990–991, 17395
reorganization, *see*, in main alphabet, Government reorganization plans.
reports on obligations, regulations, 6674
reports to be made to Congress, discontinue or modify requirements—
law, 448
report, 491
representation by attorneys, etc., in matters before Federal agencies, provide for, law, 433
resources available for foreign affairs research, directory, 6633
safety activities, management and financial aspects, workshop proceedings, 8928
sales of financial assets under participation sales act, submission of data, regulations, 14050
scientific information activities, 5050, 11112, 13890
statistical activities, personnel, equipments, costs report, 7095
Government offices—Continued
summer jobs in '66, office and science assistant positions, 311
summer vacation jobs in Federal agencies, 1761
traffic safety role, hearings, 4222, 10347, 13214
transportation, GAO guidance manual, 3015
see also Government supplies—*also* names of offices.
Government officials and employees:
acceptance of gifts and decorations from foreign governments, establish basic uniform standards, reports, 10286, 17238
automotive travel cost reductions through use of Govt.-owned vehicles, GAO report, 14730
back pay act—
hearing, 5823
law, 7044
reports, 7078, 7179
classified and postal salary rates, 7159
community action agencies, etc., prevent engaging in pernicious political activities, hearings, 14498
compensation, correction of inequities—
hearing, 17595
report, 12944
current workforce data, 301
detailing field employees into District of Columbia, repeal law prohibiting, report, 17262
District of Columbia income taxes, withholding regulations, rescission, 15396
dual compensation act, operations of executive branch under title 2, report, 7158
employment and payrolls, monthly, 3534
Federal career directory for college students, 8400
Federal employee facts, 17040
Federal employees, allotments of pay for State income tax withholding, regulations, rescission, 15397
Federal employment—
monthly report, 3217
statistics bulletin, 2928
Federal news clip sheet, 2942
Federal personnel, bimonthly statistics, 2639
Federal system as seen by Federal aid officials, results of questionnaire, 8775
Federal workforce outlook, 3979
Government organization and employees, title 5, U.S. Code, enact—
law, 15733
report, 13157
group life insurance—
FPM manual supplement, 2948
health benefits, retired Federal employees health benefits, report, 6965
improved benefits, etc., hearings, 8676
group life insurance act amendments of 1966, 7160
group life insurance act of 1954—
amend, increase Government contributions, etc., report, 8724
amend with regard to filing designation of beneficiary—
law, 7037
report, 5790
hazardous duty pay, amend classification act—
hearing, 8788
law, 12837
report, 16070
health benefits act amendments of 1966, 7160
health benefits act of 1959, amend to permit additional plans, reports, 5669, 8542
health benefits, FPM manual supplement, 2949
imported household and personal effects, customs requirements, 16205

Government officials and employees—Con.
interagency training programs, 9996
Executive Seminar Center, 1755, 14308–309
leave not to be charged for absence as result of hostile action abroad, report, 16157
licensed to drive taxicabs in D.C., investigations and actions, GAO report, 2087
motivating employees through within-grade pay increases, 3981
moving and storage expenses of household goods of Federal employees assigned to isolated duty stations, reimburse—
law, 15706
reports, 503, 8548, 13143
pay checks drawn in favor of banks, etc., for credit of Federal employees' accounts, 5191
political activity, legal restrictions, 9998
position-classification standards, 3329
postal employees, instructions and information, 3331
psychological testing procedures and constitutional rights, hearings, 10356
qualification standards for classification act positions, CSC handbook, 7038
rates for positions under general schedule, amdt., 302
reemployment leave travel benefits, GAO report, 8998
retired, health benefits act, amend with respect to Govt. contribution for administration, report, 17194
retirement systems, benefits and beneficiaries, 9657
salaries and fringe benefits, adjust rates of basic compensation, etc.—
hearings, 7161, 10365
law, 12829
reports, 8596, 10307
salaries, statutory systems, annual report, 5619
salary comparability act, law, 403
salary rates, 14434
seafaring, additional leave—
report of Civil Service Commission, 14435
report of House Committee, 17260
severance pay benefits, regulations, advance edition, 5703
staff retirement systems act of 1966, 7160
State and local, finances of retirement systems, 3934
summer vacation jobs in Federal agencies, 1761
trades and crafts, equipment operation and repair, at journeymen and junior levels, examination announcement, 7035
travel time compensation, hearings, 5704
unemployment compensation, by industry and State, 2882
variation of 40-hour workweek for educational purposes—
hearing, 11679
law, 15703
report, 11624
voluntary payroll savings plans for purchase of United States savings bonds, 8101, 15394
wage board system, report, 10261
withholding on compensation of Federal employees for State and territorial income tax purposes, regulations, rescission, 15395
work injuries sustained, 661
you and the public, federal employees, facts, 17040
see also Civil service—Civil service pensions—*also* names of departments, etc., where employed.

Government Operations Committee, House:
activities, 89th Cong., 1st sess., interim report, 7147
calendar, 3117

Government Operations Committee—Con.
hearings, 4132–33, 5694, 7145–46, 7148–49, 8669, 11658–659, 13039–40, 14422–425, 15970–974, 17379–381
investigations and studies, expenses, report, 5642
reports, 478, 487, 491, 503, 1824, 7092, 7096, 7098, 8566, 8620–22, 8628, 8630, 8639, 10124, 10245–246, 11634, 12913, 12919–920, 12987, 15843–844, 15847, 15864, 15918, 15920, 15929–930, 15950, 17193, 17239, 17266, 17289, 17345–346, 17353

Government Operations Committee, Senate:
calendar, 3137
committee prints, 577–578, 4219–20, 5812, 8775, 8777, 8779, 10345, 10348, 10351, 13213
hearings, 4221–24, 5813–14, 7214–16, 8774, 8778, 10346–47, 10349–50, 11808–809, 13212, 13214, 14482–485, 16187–188, 17580–582
investigation and studies—
executive branch reorganization, authorization, report, 4181
foreign aid expenditures, authorization, report, 5756
intergovernmental relations, authorization, report, 4183
national security and international operations, authorization, report, 4184
Permanent Subcommittee operations, authorization, report, 4180
research and development programs, authorization, report, 4182
organization chart of Federal executive departments and agencies, 8776
reports, 549, 563, 8731, 8739, 8759, 11777–778, 13138, 13142–143, 13155–156, 16158, 17467, 17550

Government organization manual, 13327
Government periodicals, *see* Periodicals.
Government printing and binding, *see* Public printing and binding.
Government Printing Office:
appropriations, 1967, legislative—
amendment, 11609
hearings, 11641, 16171
law, 15727
reports, 10224, 13168, 14395
financial statements, 1965, examination, GAO report, 14723
how to do business with GPO, contractor's guide, 12034
print and deliver to GSA additional copy of certain publications, reports, 16132, 17280

Government property, *see* Public property.
Government publications:
additional copy of certain publications for GSA, Public Printer to print, reports, 16132, 17280
certain documents executed by personnel of Department of Housing and Urban Development, valid and effective, opinion of Attorney General, 9192
classified list, 15264
exchange, agreement with Philippines, 9728
monthly catalog, 3208
price lists—
Public Documents Division, PL series, 1404–9, 2519, 5096–5101, 6568–69, 7986–87, 9621, 11178–179, 12457–458, 13950–953, 15265–266, 16785–789, 17992–996
selective bibliography of Government research reports and translations, 3989
subscription services, 17995
scientific documentation sponsored by NSF, price list, 9712
selected, list (periodical), 3510
State publications, monthly checklist, 3209
top 25, list, 13954

Government publications—Continued
see also Congressional documents—*also* names of departments, etc., issuing publications—*also* subjects.
Government regulation and control:
building codes, program for intergovernmental reform, report, 8121
selected services used by shippers and receivers of fresh fruit and vegetables, 16728
shipping industry (remarks), 7370
Government reorganization plans:
act of 1949, make authority permanent, report, 1824
Community Relations Service—
disapprove, hearings, 7216
hearing, 7149
message from the President, 4073
reports, 8566, 8731
executive branch, study, authorize, report, 4181
Health, Education, and Welfare Department, hearings, 4224, 8778, 10349, 14484, 17582
National Capital Regional Planning Council—
hearing, 14425
message from the President, 12858
report, 15918
National Zoological Park, message from the President, 11615
Navy Department, 7066
Public Health Service—
hearings, 11659, 16188
message from the President, 8506
State Department, hearings, 4224, 8778, 10349, 14484, 17582
water pollution control functions—
hearings, 8669, 10350
message from the President, 5613
report, 8639
Government securities:
direct purchase by Federal reserve banks, extend authority—
law, 12821
reports, 11748, 15840, 15845
yields and prices, 3631
see also Treasury notes.
Government supplies:
Federal item identification guides (FIIG), improvement program, general conference, 11848
Federal item identification guides for supply cataloging—
abbreviations and symbols, 4253
alphabetic index of names, 4252
numeric index of description patterns and item name codes, 5850
supplements, 2930–40
Federal manual for supply cataloging, operating procedures, 604
Federal Procurement Regulations—
FPR amendments, 2955
temporary regulation, 813
Federal specifications, 735, 2030, 4394, 5959, 7422, 8929, 10515, 11952, 13329, 14643, 16288, 17664
Federal specifications and standards—
guide, 4508
index, 7426
supplements, 3052
Federal standards, 736–737, 4395–96, 7423, 10516, 14644, 16289, 17665–667
Federal supply catalog, 4254–56, 5851, 8809–11, 17611
Federal supply classification, directory and planning, schedule of class and area assignments, 5856, 7270, 16214
Federal supply classification handbook—
alphabetic index, 4243
supplements, 2964
groups and classes, 1960
numeric index of classes, 2963, 4242
Government supplies—Continued
Federal supply code for manufacturers—
excluding United States and Canada, supplements, 2966
United States and Canada—
code to name, 602
supplements, 2967
name to code, 601
supplements, 2968
Federal test method standards, 4397, 7424, 14645
general stores stock catalog, 2031, 3018, 13330
hand tool section, 4398, 7425, 11956, 14646
GSA stock catalogs, 16290, 17668
hand tool item price changes, 2032
input and output codes, supply cataloging manual, 4244
International Development Agency, procurement regulations, 2132
item identification, cataloging manual, 603
procurement—
economic impact—
background material, 5592
hearings, 10093
NASA directive, 3231
NASA regulation, 3232
Navy directives, revisions, 3255, 11160
practices in African countries, 17058
small business subcontracting and set-aside programs, hearings, 7165
synopsis of proposed procurement invitations, subcontracting leads, etc., 2760
see also Military supplies—Surplus property.
Governor Baxter State School for the Deaf, Portland, Maine, workshop on interpreting, report, 14069
Governors' commissions on status of women, 1558
Gow, Anthony J.:
mode of uplift of fish and fossiliferous moraines of McMurdo Ice Shelf, Antarctica, 5344
snow studies in Antarctica, 8238
Gowen, Justin B.:
mineral industry of Austria, 7687
mineral industry of Federal Republic of Germany, 10914
mineral industry of Luxembourg, 7697
mineral industry of United Kingdom, 10916
Gower, H. D., mineral resources of San Rafael primitive area, Calif., 10635
GPO, *see* Government Printing Office.
Graber, Raymond E., germination of eastern white pine seed as influenced by stratification, 798
Grace, J. L., jr.:
adequacy of submerged rock weirs to withstand propeller wash, St. Clair River, Mich., 11896
resistance coefficients for structural plate corrugated pipe, hydraulic model investigation, 8864
Grachek, Raymond J., relief, 5731
Grading of commercial products, dairy plants surveyed and approved, USDA grading service, 16200
see also names of products.
Graduate work, *see* Colleges and universities.
Graduates:
careers, liberal arts and science graduates, guide, 17630
college, training program in health statistics, 8003
higher education act of 1965, prospective teacher fellowship program, 11880
Graf, Truman F., cheese production in United States, 16726
Grafting (physiology):
transplant immunity and radiation chimera, USSR study, 14920
Grafton, Sue B., effects of applying thrust on recovery from incipient and developed spins for 4 airplane configurations, 12341

Graham, K. D., minimax control of large launch boosters, 15053
Graham, Ralph E., Newtonian aerodynamic characteristics of blunted right elliptical cones, 13809
Grain:
cereal grains, trade and tariff, information, summaries, 14045
cooperatives, general information, 2000
costs of storing and handling in commercial elevators, 1964–65 data, 8829
crop quality, carlots and trucklots receipts, 13234
crops, stem sawflies of economic importance in U.S., 5298
culture, etc., publications, price list, 1404
drying and storage studies in southwest Georgia, 67
feed grain—
production and foreign demand (address), 9809
program, 1965, statistical summary, 12591
program, 1966, general information, 8156
foreign agriculture circulars, 2987
handling of food grains, Food and Drug Administration's grain sanitation program, 2050, 5969
land improvement to obtain high and stable yields, USSR study, 10812, 12156
losses in transportation and handling by marketing cooperatives, 14143
market news—
quarterly summary and statistics, 3026
weekly summary and statistics, 3027
sales to Eastern Europe, shipping restrictions, hearings, 575
small, drying, methods, etc., 1583
Soviet imports, 626
standards act—
as amended and regulations thereunder, errata, 4235
provide uniform national inspection system, etc., proposed changes, summary, 14407
standards, official, United States, 7245
stocks—
in all positions, quarterly report, 3541
in deliverable position at Chicago, weekly report, 3542
storage facilities, sale—
hearing, 15951
reports, 17231, 17557
storage, off-farm commercial facilities, 623
transportation in southwestern States, 1960–62, by rail and truck, 3771
world trade, 17680
see also names of grains.
Grain elevators:
commercial, costs of storing and handling grains, 8829
terminal, unloading boxcars of grain in hard winter wheat area, 15434
Grain mills, census of manufactures, industry report, 5439
Grain size (metal), *see* Metallography.
Grambs, Jean M., curriculum guide to adult education, intermediate level, 10419
Gramley, Lyle E., time deposits in monetary analysis, 2028
Grammar, *see* English language.
Grand Banks, Newfoundland, oceanography of region, 14317
Grand Calumet River:
pollution of interstate waters, conference—
proceedings, 7493
technical session, 11961–962
Grand Coulee Dam:
third powerplant, construction, etc.—
appropriation, 15784
authorize—
law, 11557
reports, 8595, 8602
Grand Junction Operations Office Analytical Laboratory, handbook of analytical procedures, supplement, 8292
Grand Lake area, Maine, bedrock geology, 815
Grand Portage National Monument, general information, 11126
Grand Saline, Tex., railroad accident, 6097
Grand Teton National Park, general information, 9571
Grand Traverse County, Mich., soil survey report of area, 6615
Grandfather Mountain, window and vicinity, N.C., mineral resources, 10639
Grandone, Peter, mineral industry of Louisiana, 2331
Grandparents, foster grandparent program, 14526
Granges, helping farmers' incomes and Nation's balance of payments (address), 3738
Granite:
explosive in, comparison of end and axial methods of detonating, 2349
explosives, comparative studies, 1164
Granite City Defense Depot, employees relief, 4076, 14362
Grantham, Marilyn H., agricultural situation, 2653
Grants-in-aid:
academic grants awarded, by country and area, 14691
administered by Health, Education, and Welfare Dept., 14758
aged, community planning, etc., report, 17460
air pollution control act, amendments, description, 2107
air pollution control programs—
hearings, 13228, 15982
reports, 11782, 15946, 17295
staff study, print additional copies, report, 7195
airport program, extend time for making grants—
hearings, 11797, 17383
law, 17136
reports, 11776, 15940
airport program, field operations procedures, FAA handbook, 5914
airports, Federal aviation regulations, 693, 2009, 10468, 16264
allied health professions personnel training act of 1966—
hearings, 10249, 17591
reports, 10225, 15841, 17535
areas eligible for financial assistance, map, 8820, 16218
Army Research Office, scientific research, general information, 11393
arts and humanities encouragement, legislative summary, 4537
arts and humanities, public elementary and secondary schools, instruction, financial assistance, 8843
awarded by NIH, 1965, index, 13991
child food service program—
hearings, 13191, 17375
reports, 12985, 13146, 15865, 15890
children's summer lunches—
hearings, 13030
report, 8634
Chronic Diseases Division, research grants, program, 2539
city demonstration programs, comprehensive planning—
hearings, 8659
message from the President, 5605
summary of bill, 8664
civil defense, Federal contributions available to State and local governments, 11491
communities, Federal aids, handbook, 11856
community action program grantees, directories, 5861, 13258

Grants-in-aid—Continued
community development district act of 1966, rural America—
hearings, 8761, 14403
report, 8740, 12918
community health planning grants for heart disease, cancer, and stroke, 14757
community health projects, out-of-hospital health services, 18068
Community Health Services Division, research and research training grants and fellowship programs, 1433
community hospitals and other health facilities, facts for Hill-Burton applicants, 13955
community mental health centers act, aspects (address), 16790
community sewage treatment needs, construction program, 7429
constitutionality under certain acts, judicial review—
hearings, 11818, 13223
report, 13164
demonstration cities and metropolitan development act of 1966, reports, 13186, 15897, 17241, 17336
Economic Development Administration, program for building communities with jobs, 7272
EDA grants and loans for public works and development facilities, 1968
EDA planning grants for economic development, 1966, 4264
EDA program for building communities with jobs, 1964
education—
aquatic sciences, graduate grants, 4412
construction of elementary and secondary schools, hearings, 5690
disaster areas, etc., law, 415
elementary and secondary—
amendments of 1966—
hearings, 13028, 13226, 14416, 17373
reports, 12989, 15924, 17342, 17499
formulas under 1965 school act, hearings, 4128
PACE, projects to advance creativity in education, supplementary centers and services, etc., 5879
profile of ESEA, 5881
entitlement by impacted area school districts under P.L. 874 and P.L 89–10, d1826
federally affected areas, impact aid hearings, 14417
grant programs, 7309
projects in oral, head and neck cancer, guidelines, 5105
schoolman's guide 512
testing, guidance, and counseling programs under title 5–A, national defense education act, legislative changes, 653
vocational and technical, review of activities, 14563
educational research training program, guidelines, 644
elementary and preschool child development act—
hearings, 5689
report, 5676
family planning program, Federal financial assistance to public agencies, etc., hearing, 14499
farm labor housing, 12611
Federal aids to State and local governments, catalog, supplement, 10345
print additional copies, reports, 10212, 10293
Federal, airport improvements at Kenai and Soldotna, Alaska, Federal Aviation Agency, GAO review, 17711
Grants-in-aid—Continued
Federal research programs, conflicts with goals for education—
committee print, print additional copies, reports, 10200, 10206, 17473
hearings, print additional copies, report, 10207
foreign studies extension, overseas projects in education, 16232
forestry research fact sheet, 5837
get ready for college and go, 4 programs of Federal assistance in financing education, 5874
grants and other financial assistance programs administered by Health, Education, and Welfare Dept., impact of 1965 legislation, 4532
handicapped children, program for preparation of professional personnel, 4303, 7310
handicapped, expansion grants to increase rehabilitation, 11308
health—
grants made by PHS to Indiana, financial administration, GAO review, 16347
made by PHS to Illinois, administration, GAO report, 13380
health planning and services—
hearings, 7230, 17386
reports, 16161, 17308
health professions educational and assistance amendments of 1965, law, summary, 4534
health research facilities, guidelines for architectural-engineering documents, 15267
health services, comprehensive, for children and youth, project grants, policies and procedures, 3944
higher education act of 1965—
law, 430
outlined by title, 645
questions and answers, 7312
section by section analysis, 646
higher education amendments of 1966—
hearings, 13227, 17374
reports, 8629, 16167, 17349
higher education facilities, financial assistance for construction regulations, amended, 11873
highway beautification program, costs, 1967 estimate, instruction manual, 11204
highway beautification, report, 546
highway construction act of 1966—
hearings, 10262. 11831
law, 15749
proposed legislation, analysis, 7168
reports, 12949, 12974, 13169
section-by-section analysis, 14441
highway program—
America's lifelines, 11202
Louisiana, highway construction practices, report, 15948
toll facilities relationship, hearings, 14440
highway safety—
hearings, 10264, 10368
law, 15742
reports, 12946, 12993, 16078
historic sites preservation—
hearing, 11814
reports, 13148, 15892
housing and urban development act of 1966—
reports, 13188, 14388, 17202
summary of House bill, 13023
individual and community advancement, Federal programs, 11347
intergovernmental cooperation and administration of Federal programs, strengthen, hearings, 17581
intergovernmental relations, results of questionnaire, 8775

Grants-in-aid—Continued
international education—
hearings, 10238, 16193
reports, 10161, 17528
print, additional copies, report, 13006
international health work, grants to schools for training personnel—
hearings, 5698
report, 7084
juvenile delinquency and youth offenses control act training grants awarded, Sept. 1964–Sept. 1965, summaries, 16906
Kansas areas damaged by tornadoes, hearing, 11792
law enforcement assistance act of 1965, hearings, 582
law enforcement, Federal assistance to State and local governments, amend law, hearings, 14429
libraries, appropriations, 1967 amendments, 17171
library services and construction act—
extend and amend—
hearings, 10239, 11823
law, 12836
reports, 8635, 10170, 16067
Federal allowances and required matching expenditures from State and local sources, 1978
McIntire-Stennis cooperative forestry research program, administrative manual, 14132
major programs providing Federal funds for employment & training, 9944
manpower and automation research, MDTA sponsored, 2282
manpower development and training act of 1962, guidelines for research, 16513
medical assistance under title 19 of social security act, limitations, report, 17282
medical care, directory, 4539
medical care, to improve, guide, 10658
mental health projects—
completed, 6482
current, 6483
mental health research grant awards, 15288
mental health training grants, program—
general information, 9561
statistical sourcebook, 2459
mental retardation, HEW programs, 7495
mental retardation research, etc., awarded by HEW, 2108, 17732
mentally retarded—
community facilities construction grants, 12462
university-affiliated facilities construction grants, 7992
national defense student loans, college-work-study program, and list participating institutions, 7316
National Heart Institute—
comparative, veterinary, and primate cardiovascular research, 5026
rheumatic fever and rheumatic heart disease, research, review, 18076
National Science Foundation, 2475
noncash credits, certain policies and practices in approving claims for, Renewal Projects Administration, GAO review, 17710
nurse training project grants, list, 18059
nursing research grants and awards, 12464
nursing research projects, 1434
older Americans act—
grants to public and private nonprofit agencies, etc., for research, demonstration, and training projects, 3
grants to States for community planning, services, and training, 4
outdoor recreation, manual, 3303, 11162, 15253
Philippine hospitalization and medical care of veterans, extend—
hearings, 16195, 17397
reports, 15866, 15877, 16133
Grants-in-aid—Continued
population conferences, hearings, 4224, 8778, 14484, 17582
population crisis, hearings, 10349
preliminary review of 1964–65 Federal grants, 8027
professional training and cooperation amendments of 1966, report, 17269
Public Health Service—
cancer programs, 4531
guide, 12468
1964 funds, mental health research, 11106
1965 funds—
construction of facilities, 6491
health services, formula and project, 6492
mental health training, 2458
research funds, 5033
summary tables and graphic highlights, 9560
training grant programs, 13997
training grants, traineeships, fellowships, etc., 6490
public health traineeship program awards to individuals, 5102
public works and development facilities—
areas, eligible, 8819
facts, 16217
grants and loans, 4266
public works grant rates in qualified areas under Public works and economic development act, 1969
research grant program of NIMH, 1964, descriptive data sourcebook, 11111
rural America, planning services, etc., message from the President, 5604
school districts affected by Federal activities, effects of proposed amendments to act, 7232
school programs, education, answer to poverty, 4299, 13270
sea grant colleges—
hearings, 11825, 14431
reports, 15863, 16081
solid waste disposal research, law, 396, 7999
State technical services program—
amend act to include Guam, report, 17268
fact sheet, 11527
special merit programs, 11528
steps for State participation, 11529
summer seminars, overseas projects in education, 16243
timing of payments for Federal grants, contributions and other programs, regulations, 14048–49
urban mass transportation, increase—
law, 15740
report, 13183
veterinary medical education facilities construction and student loan program—
hearings, 11665, 17591
reports, 15943, 17527
water and sewer facilities grant program—
guide, 6048
HUD information series, 6049
water & sewer systems as provided under housing and urban development act of 1965, 4541, 6049
water pollution control—
hearings, 13058
print additional copies, report, 5758
reports, 13150, 15909, 15925, 17324
water pollution control research and training grants—
1962–64 index, publications and reports, 10517
1965 awards, list, 1446
water resources research—
law, 8480
reports, 8550, 8569
water resources research centers, amend act, hearings, 7152

Grants-in-aid—Continued
Wisconsin for Menominee County, etc.—
hearings, 11824
law, 17140
reports, 15894, 17498
Grapefruit:
exported from Florida, factors affecting quality, 6758
Florida, packaged and labeled, sales test, 10414
Grapes, production, use, value, 1964–65 by States, 15379
Graphite:
disposal from national or supplemental stockpile, or both, law, 412
graphite-metal carbide composites, 12267
heater elements, refractory coating to protect from high-temperature hydrogen, 9452
liquid zirconium and niobium carbides containment between 3500° and 4700° K, 16614
minerals yearbook chapter, 16557
natural, duty-free treatment, make permanent—
law, 10084
reports, 8555, 10298
oxidation in high-temperature supersonic and hypersonic environments, 12343
Graphs, *see* Charts.
Grasses:
culture, etc., publications, price list, 1404
perennial, seed yields, effect of diuron, 14163
turf, establishing, emergency construction, technical manual, 3834
see also Bluestem.
Grasshoppers, control on rangeland, hitting the hot spots, 15474
Grasslands, national, facts, 10560
Gravel, census of mineral industries, 1963, industry statistics, 11458
Graves, Albert H., unloading boxcars of grain at terminal elevators in hard winter wheat area, 15435
Graves, Ernest, jr., Isthmian Canal studies, 1964, nuclear excavation plan, 153
Gravimeters, A. Graf Gss-2 sea, investigation, USSR study, 877
Gravimetric surveying, *see* Surveying.
Gravimetry:
borehole measurements in petroleum exploration and exploitation, 9017
gravimetric effects of petroleum accumulations, preliminary summary, 7482
measurements on gyrostabilized base from surface vessels, USSR study, 876
report, 5012
Gravitation:
ballooning interchange instabilities of magnetized plasmas under gravitational fields, 8286
directional equilibrium of artificial satellite enveloping nonuniform region of gravitational field, 5072
lunar field, error analysis of weighted least squares process to determine, 17923
sensitivity of short-period tracking data from lunar satellite to lunar gravitational field harmonics, 1271
sextant measures spacecraft altitude without gravitational reference, 7797
Gravity:
anomalies of southwestern Sakhalin, nature, USSR study, 14805
drift of inclined-orbit 24-hour satellite in earth gravity field through 4th order, 15136
earth and simulated lunar, comparative effect on man's gaits, 12339
earth's longitude gravity field, sensed by drift of 3 synchronous satellites, 16658
effects of gravity level on boiling in discrete bubble region, 16651
exposure to chronic 2x gravity field, neurologic adaptations in mice, 93
Gravity—Continued
gravity-gradient moments, use for removal of momentum from spacecraft system, 7844
gravity gradient torque, effect on motion of spin axis of asymmetric vehicle, 9407
higher order gravity, influence in determination of equatorial ellipticity, from Syncom II drift data, 9513, 13802
lunar, man's self-locomotion capabilities with space suit, exploratory study, 12332
passive gravity-gradient stabilization, symposium, 16620
potential and force field of earth through 4th order, 15137
reduced, critical heat flux for saturated pool boiling, 4905
simulator effects partial gravity conditions, 13774
water-immersion technique for study of mobility of pressure-suited subject under balanced-gravity conditions, 4900
zero- and reduced, simulation on magnetic-colloid pool-boiling system, 6452
Gravity model trip distribution formula, *see* Transportation.
Gray, Frederick D., sweetener market, trends and prospects, 4283
Gray, Jerry J., mineral industry of Oregon, 1140
Grayson, Helen D.:
foreign trade regulations of—
Iran, 4006
United Arab Republic, 17055
Grazing:
fees and permitted use of public rangelands on incomes of western livestock ranches, effects of changes, 4279
permits, cancellation, fix compensation, 12866, 17090
publications, price list, 12458
see also Pasture lands.
Grease, *see* Lubricants.
Great Basin:
floods, magnitude and frequency, 7489
western, small playa, hydrologic factors and saline mineralogy, relationship, study, 9018
Great Britain:
amateur alien radio operators, authorize to operate, agreement, 9730
atomic energy, cooperation for civil power applications, agreements, 16861, 16864
chronic health care, comparison with American, etc., methodology, 11684
community mental health services, 5025
double taxation, supplementary convention, protocols, report, 13087
economy, basic data, 14325
England, sailing directions—
east coast, 6519
south coast, 11142
European and British Commonwealth series, 1489
experience under sick-pay plans, 18101
interim trade agreement, renegotiation of schedule 20 of GATT, 12860
labor conditions, 12225
lights and fog signals, list, change, 2482, 7959, 12407, 16746
manpower policies, 11649
manpower policy and programs, 16515
market for—
audio-visual equipment, 174
electroplating and metal finishing equipment, 177
travel to United States, main findings of study, 1527
mineral industry, minerals yearbook chapter, 10916
mortality trends in England and Wales, changes, 5121
plant quarantine requirements, 14116
political and economic positions in Near and Middle East, 6110

Great Britain—Continued
Project Sparta, Australia, flight reentry program, agreement, 15348
renegotiation of schedule 20 to GATT, agreement, 12529
residential central heating equipment market, 10025
social science research studies, current list, 11248
supplementary tax protocol, message from the President, 10277
Great ice age, 10640
Great Lakes:
commercial fisheries, 5963
Federal fisheries and limnology research, annotated bibliography, 11978
fish recipes from, 746
fisheries—
annual summary, 2034
conservation, etc., law, 406
convention with Canada, amending, 15999
forest-product imports and exports, 14706
ice cover data for winter of 1964–65, 9340
light list and other marine aids, 8405
notice to mariners, 3280
pilot, survey, 7679
supplements, 1097, 10884–885, 13648–649, 14985, 16543
pilotage, 1964, statistical report, 4028
pilots, seaway dispatch system, district 1, operations manual, 4001
rules concerning sailing vessels, etc.—
hearing, 10335
report, 17313
small craft, gale and whole gale warning facilities charts, 15423–424
transportation lines, 14574
water pollution, control, etc., in region, hearing, 15974, 17381
waterways to Hudson River, completion, authorization, report, 1910
Great Lakes Pilotage Administration:
operations manual, district 1, seaway pilot dispatch system, 4001
statistical report, 4028
transfer, message from the President, 5617
Great Lakes States:
botanical and commercial range—
black spruce, 5985
white spruce, 5984
forest tree improvement research, 10596
growth patterns in employment by county, 8322
principal electric facilities, map, 7375
pulpwood chip production and markets, 14701
pulpwood production hampered by adverse weather and labor shortage, 14702
upper region, economic development program (remarks), 5560
Great Meadows National Wildlife Refuge, birds, list, 14666
Great Northern Ry., accident, 2136
Great Plains:
central—
Indians, general information, 16369
windbreaks—
height growth characteristics of Siberian elm, 8966
how to arrange and space trees and shrubs, 4487
how to maintain new tree plantings, 4489
how to manage established plantings, 4491
how to prepare land and plant trees, 4488
how to protect them from damage, 4490
how to select tree and shrub species, 4486
how to use trees to protect land and crops, 4485
Great Plains—Continued
commercial wheat farms, 1965 cost and returns, 14530
conservation program, progress report, 1597
loess-mantled, erosion and deposition, 17717
northern—
effects of stocking rates on range vegetation and beef cattle production, 3772
growing fruit for home use, 3751
region, growth patterns in employment by county, 12693
southwestern, wind, 3736
thunderstorms, measurements by aircraft of condensed water, 15421
West-Central, safflower culture, 30
wheat yields, variability, 14538
Great River Road:
5-cent commemorative postage stamp (poster), 16781
signs and markers manual, 1448
Great Salt Lake:
relicted lands, convey lands lying below meander line in Utah—
hearings, 13045
law, 11550, 15724
reports, 5769, 8546, 10162, 12934, 16068
Great Sand Dunes National Monument, general information, 13881
Great Smoky Mountains National Park, general information, 6509
Great Society:
American, new War of Independence (remarks), 12549
financial management of Federal credit programs (remarks), 16882
Great Society and Christian social concern (remarks), 10839
key, social development, 11320
Greater wax moths, *see* Bee moths.
Greaves, James R., sea surface temperature determination using satellite infrared data, 9440
Greece:
agricultural commodities, agreements, 8070, 15363
air transport services, agreement, 12532
atomic energy cooperation for civil uses, agreement, 8081
Bulgaria boundary, study, 2579
citrus industry, 8950
Educational Foundation and financing of exchange programs, agreement, report, 1914
establishing business, 8433
labor conditions, 13633
lights and fog signals, list, change, 13894
loan of 1929, settlement acceptance, report, 1914
mineral industry, minerals yearbook chapter, 6299
pocket guide, 8224
trade in cotton textiles, agreement, 15356
Green, Gloria P., relative importance of CPI items, 1096
Green, Morris, improving parent care of handicapped children, 1741
Green Bay, Wis., principal electric facilities, map, 7375
Green coffee inventories and roastings, 3028
Greenberg, Jacob, thermopotential measurements of alkali halides, 4927
Greenberg, Leon:
address, Oct. 26, 1965, 6272
automation, nationwide studies in United States, 1087
Greene County, Tenn., geology and mineral deposits of Mosheim and Johnson anticlines, 4512
Greenhouses, windowsill, plastic, construction, etc., 15476

Greenland:
albedo and sky radiance measurements, 11395
DEWline ice cap stations, 1963, performance study, 14211
general information, 1632
ice cap, performance testing of air cushion vehicle, 9890
ice sheet, snow temperatures, 6830
lights and fog signals, list, changes, 5055, 9581, 15237
mineral industry, minerals yearbook chapter, 2325
northwest, seismic survey, 15509
snow, elastic constants, strength and density as determined from sonic wave velocity measurements, 9891
Thule AB, dissipation of warm fog by helicopter-induced air exchange, experiments, 118
tide tables, 10005
Greenleaf, John E., involuntary hypohydration in man and animals, review, 10979
Green's function, approach to thin spherical shell segments, 16611
Greenstone, habitat at Eagle, Alaska, phytoecology, 13396
Greenup Locks and Dam, Ohio River, Ky., culvert pressures, hydraulic prototype tests, 16249
Greenville, S.C., area wage survey, metropolitan area, 13605
Greer, P. E., electrostatic measurement experiment, Scout vehicle (S.E.V.), 10946
Greeting cards, census of manufacturers, 1963, industry statistics, 6900
Gregg, Randolph M., occupations in care and rehabilitation of mentally retarded, 14569
Gregor, Harry P., membrane phenomena, 10678
Gregory, Robert A., growth and yield of well-stocked aspen and birch stands in Alaska, 4471
Greig, R. A., salt concentration in fresh and smoked chub, 7435
Grew, Edward, high snowfields of St. Elias Mountains, Canada, 9892
Greyhound Lines, Inc., accident, 12068
see also Eastern Greyhound Lines.
Grids:
lead-antimony alloys intergranular corrosion, investigation, 16763
primacord, explosive force, forms large sheet metal parts, 4851
strippable grid facilitates removal of grid-surfaced conical workpiece from die, 13769
wire bundles formed into grids with minute interstices, 2391
Grier, Norman T., transport properties of ionizing atomic hydrogen, 9506
Grierson, Robert, dispersion hardening, 4817
Griest, Jeanne, summary of manufacturing earnings series, 9204
Grievance procedures, grievances, supervisor development program, 6828
Griffel, Jack, forced convection boiling burnout for water in uniformly heated tubular test sections, 8288
Griffin, George E., near-drowning, pathophysiology, etc., 14996
Griffin, Jack G.:
field studies of use of insulation in broiler houses in central Mississippi, 10
radiant energy distribution of 3 gas-fired infrared chick brooders, 9777
Griffin, Nelda, financial structure of regional farmer cooperatives, 8871
Griffin, William S., design of fluid jet amplifier with reduced receiver-interaction-region coupling, 16701
Griffith, Eugene, plant inventories, plant material introduced, 8137, 11339–340, 14115
Griffith, Franklin E., secondary backfilling of strip-mine areas, 7717
Griffith, J. R., filament-winding plastics, effects of curing agent structure upon epoxide plastic physical properties, 2499
Grinders, *see* Meat-chopping machines.
Grinding and polishing:
continuous attrition grinding of coarse kaolin, 1165
multisurface fixture permits easy grinding of tool bit angles, 9478
submicron metal powders produced by ball milling with grinding aids, 11015
Grisaffe, Salvatore J., analysis of shear bond strength of plasma-sprayed alumina coatings on stainless steel, 1275
Grizzell, William G., hydrocooling stacked crates of celery and sweet corn, 12582
Groceries, manufacturing, organization and competition studies, 15216
Grocery stores, *see* Stores.
Groff, Richard W., Minnesota's aspen and its projected supply, 14703
Grogan, Paul J.:
addresses—
June 22, 1966, 11530
June 23, 1966, 10022
Grosenbaugh, L. R., THREE-PEE sampling theory and program THRP for computer generation of selection criteria, 4473
Grosh, Wesley A., mineral industry of Wisconsin, 1151
Gross, Bernard, stress-intensity factors by boundary collocation, 2410, 4982
Gross, H. R., contested election, hearing, 515
Gross national product:
calendar year 1964, current market prices, 6074
explanation, and how it mirrors our economy, 15643
growth rates and trend data by region and country, 13439
USSR, aggregate national product, new directions in Soviet economy, 12844
Gross receipts tax, State taxation of interstate commerce, report, print additional copies, report, 10187, 14461
Grosso, J., optical techniques for electron probe analysis, 2497
Groton, Conn., reduced defense spending, potential impact, 14207
Ground, *see* Earth.
Ground effect:
flight-measured, on low-aspect-ratio ogee wing, compared with wind-tunnel results, 11058
full-span flaps used for yaw control in hovering, test on semispan tilt-wing VTOL model, 11064
on single- and multiple-jet VTOL models at transition speeds over stationary and moving ground planes, 4955
related to landing of airplanes with low-aspect-ratio wings, 16663
Ground instructors:
Federal aviation regulations, 4360
instrument, FAA examination guide, 2048
Ground water, *see* Water.
Groundwood, *see* Wood pulp.
Group behavior:
communications as measurable index of team behavior, 1350
learning nonsense syllables, comparison with individual performance, 14994
Group insurance, *see* Life insurance.
Group Services, Workshop on, *see* Workshop on Group Services.
Les groupes a l'aide de l'individu, 6 rapports d'informations générales présentés au Seminaire des Services par Groupes, 14583
Grouting:
foundation, planning, engineering and design, manual, 17633
mixtures, employed at nuclear test in salt, laboratory design, analysis, and field control, Project Dribble, Salmon event, 3853

Grove, Richard, National Foundation on Arts and Humanities act, 4537
Growing eggplant, 8147
Growing flowering perennials, 14138
Growing summer cover crops, 35
Growing up poor, child-rearing and family life patterns associated with poverty, 11319
Growth:
  birch seedlings, effect of artificial light sources, 790
  cattle, influence of environment, 5268
  characteristics, body development, USSR study, 6183
  children, research programs, studies in progress, 12734
  diameter growth and phenology of trees on sites with high water tables, 2073
  human growth hormone, 2457
  performance of young tree stands, evaluation, 16324
  response of hardwoods planted in saturated soils, 16335
  southern browse plants, seasonal twig elongation, 5988
Growth patterns in employment by county, 5436–37, 8322, 12693–696, 14247
Gruber, Bernard A., dry tape battery concept, 2365
Gruenwald, Kalman J., semispan tilt-wing VTOL model to determine ground effect on full-span flaps used for yaw control in hovering, 11064
GSA, *see* General Services Administration.
Guadalupe Mountains National Park:
  establish—
    hearings, 17584
    reports, 10183, 17501
Guadeloupe, weather station, agreement with France, 16867
Guam:
  census of business, manufactures, and mineral industries, 1963, 1707
  economic development, long-range plan, 11663
  geology and hydrology of Guam, Mariana Islands (series), 4519
  governor, annual report, 7508
  governor, popular election, provide, amend organic act—
    hearings, 11661
    reports, 10143, 17518
  hydrology, 4519
  include in State technical services act of 1965, report, 17268
  legislature, election of members from election districts, provide by law amend organic act—
    law, 15731
    reports, 10139, 13178
  nautical chart catalog, 6989
  selected services area statistics, 1963 census of business, 15566
  social security tax guide for employers, 2116
Guam Magnetic Observatory, magnetograms and hourly values, 5525
Guaranteed loans for your college education, 17622
Guaranties and sureties:
  companies acceptable as sureties on Federal bonds, lists, 12546
  European agricultural guidance and guarantee fund, 11864
  investment guaranties, specific risk, issued since beginning of program, AID report, 2814
  investments, agreement with—
    British Honduras, 11279
    Ceylon, 15347
    Honduras, 15360
    Singapore, 15352
    Thailand, 8076
  specific risk investment guaranty handbook, 2133
Guards (persons):
  force staffing at contractor-operated installations under supervision of Oak Ridge Operations Office, AEC, savings attainable through reductions, GAO report, 9001
Guards (safety appliances):
  key-locked, prevents accidental switch actuation, 11027
Guatemala:
  binational centers, observations, report, 15968
  economy, basic data, 11517
  gazetteer, official standard names, 814
  mineral industry, minerals yearbook chapter, 7688
Guernsey cattle, *see* Cattle.
Guerrilla warfare:
  know your enemy, Viet Cong, DOD pamphlet, 8222
  operations against guerrilla units, Fleet Marine Force Manual, change, 6279
Guidance:
  character, Army field manual, 12652
  character, discussion topics, etc., Army pamphlet, 5349
  Hungary, Department of Technical Sciences of Academy, activities, 9031
  national defense education act program, questions and answers, 653
  new look in guidance, students as individuals (address), 7323
  services in elementary schools, national survey, 13272
  State Department of Education personnel, directory, 7301
  see also Counselors—Personnel services in education—Vocational guidance.
Guidance systems:
  atmosphere reentry scheme for return from manned Mars mission, 9535
  explicit guidance equations for multistage boost trajectories, 4936
  information requirements, 10937
  interplanetary midcourse guidance using radar tracking and on-board observation data, 16686
  lunar mission—
    descent, scheme based on linear perturbation theory, 2430
    landings, iterative guidance mode, application, 1246
    manual abort guidance from midcourse region, 11051
  midcourse guidance for return to specific landing site, 6461
    simplified technique to establish orbit, 15154
  minimum effort control, theory, 6330
  orbital testing requirements, 4812–13
  space mission guidance, linear theory of impulsive velocity corrections, 7878
  supercircular entry guidance concept designed for maximum monitoring capability, 17926
  using optimal filtering and linear prediction, effect of reduced computer precision, 7890
Guide books:
  Commerce Department, agency of business, promotes economic growth, 10047
  election law, 1966, 10276
    print as Senate docuent, report, 10294
  occupational information, local, listings, 13286
  outdoor recreation and facilities, list, 7978
  welcome to U.S.A., 11305
    French edition, 15402
    Spanish edition, 15401
Guide to analysis of pesticide residues, 7993
Guide to duties and responsibilities of accredited veterinarians, 12585
Guide to record retention requirements, 7416
Guide to specifications and standards of Federal Government, 4508
Guide to zero defects, 4261

Guidebooks, *see* Guide books.
Guided missiles, *see* Missiles.
Guidó, Pedro I., relief, 10108
Guillou, R. B.:
  Albuquerque-Los Alamos area (ARMS–II), 8279
  Cincinnati area (ARMS–II), 8280
Guilmette formation, *see* Devonian period.
Guinand, Jerome B., oil and gas lease, reinstate, report, 17491
Guinard, N. W., ray tracing in rising and falling ducts, 1360
Guinea:
  agricultural commodities, agreements, 2591, 11271
  background notes, 11237
  mineral industry, minerals yearbook chapter, 6300
  Portuguese—
    background notes, 6626
    mineral industry, minerals yearbook chapter, 6294
Guinea, Gulf of, shrimp potential, 4410
Guinea pigs, immunization against plague, smallpox, etc., USSR studies, 10834
Guist, LeRoy E., prediction of inversion load of circular tube, 16685
Gula, Martin, quest for equality, 14282
Gulf, *see* name of gulf, or place where located.
Gulf Coast:
  coastal warning facilities chart, Morgan City, La., to Apalachicola, Fla., 7340
  Indians, general information, 14764
  light list, Little River, S.C. to Rio Grande, Tex., and Antilles, 6991
  nautical chart catalog, 6988
  shrimp data, 3029
  transportation lines, 7330
Gulf Island National Wildlife Refuges, general information, 8943
Gulf of Mexico, *see* Mexico, Gulf of.
Gulf States:
  eastern Gulf of Mexico basins, surface water records to Dec. 31, 1963, index, 2095
  fisheries, annual summary, 744
Gulf stream, rhythmic phenomena, USSR study, 9180
Gulick, James W., statement, Oct. 4, 1966, 16549
Gulls, *see* Herring gulls.
Gum chemicals, *see* Chemicals.
Gum naval stores, *see* Naval stores.
Gunner's mates, school class "A" course, trainee's guide, Navy, 12416
Gunnery:
  field artillery cannon, Army field manual, 6834
  naval gunfire support, Fleet Marine Force manual, 9350
  small arms ranges, Air Force manual, 16944
Gunpowder Falls, uses of water resources, today and tomorrow, 6041
Guns, 5''/38 gun, self-study course, 5064
  see also Firearms—Gunshot wounds.
Gunshot wounds, treatment, USSR study, 4661
Guralnick, Lillian, cohort infant mortality rates, 6584
Gustafson, K. L., development and evaluation of braze alloys for vacuum furnace brazing, 12272
Gustavson, Samuel A., mineral industry of Delaware, 17841
Guy, H. P., summary of alluvial channel data from flame experiments, 1956–61, 13407
Guz, A. N., stressed state near curvilinear reinforced orifices in shells, 9548
Gwinner, Myron W., forest-fire danger as related to airmass in Ouachita Mountains, 4456
Gynecologists, exfoliative cytology manual, 2313
Gypsum:
  and products, mineral industry survey, quarterly, 3030
  mineral yearbook chapter, 15008
Gypsy moths:
  bacillus thuringiensis control agent, field and laboratory investigations, 17699
  egg-mass density and subsequent defoliation, 8959
  see also Moths.
Gyroplanes:
  commercial pilot flight test guide, 14683
  private and commercial pilot, written examination guide, 11982
Gyroscopes:
  control moment gyro optimization study, 7726
  maintenance and supply, fire control technician training—
    instructor's guide, 6532
    trainee's guide, 6533
  optical gyro pickoff operates at cryogenic temperatures, 7784
  synchronous gyroscopic vibration absorber, analytical research, 4806

H

H.E.W., *see* Health, Education, and Welfare Department.
H. J. Andrews Experimental Forest:
  Christmas storm damage, 2064
  logging and slash burning, effect on understory vegetation, 8961
H. K. Ferguson Company, *see* Ferguson, H. K., Company.
H. M. H. Motor Service and Tank Lines, Inc., accident, 873
H. S. series, 755–758
Haar, Charles M., nomination, hearing, 5801
Haas, Larry A., torsion effusion apparatus for vapor pressure measurement, 1156
Habeas corpus:
  jurisdiction and venue, amend U.S. Code—
    law, 15760
    reports, 15886, 17478
  State custody, revise procedures, reports, 15884, 17555
Haber, Paul, chronic health care, comparison of British, Canadian, Australian, and American methodology, 11684
Habib, Edmund J., telemetry processing for NASA scientific satellites, 13806
Hack, John T., Cumberland Escarpment and Highland Rim, 6034
Hackensack River:
  engineer report—
    departmental edition, 17634
    document edition, 17169
Hackett, O. M., ground-water research in United States, 13405
Hackney, Loneta, relief, 5574, 5736
Hackstra, P., migration of liquid inclusions in single ice crystals, 6833
Haddon, William, jr., remarks, Sept. 22, 1966, 15660
Haenszel, William, epidemiological approaches to study of cancer and other chronic diseases, 7931
Hafnium:
  electrorefining, electrolytes for, 15022
  enriched feed solutions from zircon, producing, 12256
  evaporation of Ta-Hf-C system, computational methods for calculation of rates, 9429
  minerals yearbook chapter, 15034
Hafnium carbide, solid solutions, TaC-HfC system, time influence on vacuum vaporization rate and surface compositional stability at temperatures about 2000° C, 12365
Hagan, William A., factors involved in host-agent relationships, symposium, 9780
Hagberg, Hilding, former Communist Party chairman publishes book, 14903

Hagermann, Madeline G., education directory, 1965–66, pt. 1, State governments, 11872
Hagerty, William W., nomination, hearings, 4215
Hague Conference on Private International Law, statute, establishing, 1494
Hahn, Otto, Enrico Fermi award, 1966 (remarks), 15545
Hahn, William F., major collective bargaining agreements, deferred wage increase and escalator clauses, 7664
Haida Indians:
totem pole, colored poster with—
French text, 15407
German text, 15405
Spanish text, 15406, 15408
Haidar, Walter:
foreign trade regulations of—
Argentina, 10027
Mexico, 15650
Hail forming processes, USSR study, 14949
Haimbachia, *see* Moths.
Haines Road, winter maintenance, agreement with Canada, 5173
Hair, Dwight, demand and price situation for forest products, 1965, 57
Haji-Morad, Ali, *see* Morad, Ali Haji-.
Hale, Philip W.:
prepackaging pole beans in trays and polyethylene bags, 8129
shipping containers for eastern-grown peaches, 6756
Hale, William N.:
mineral industry of—
Montana, 1134
Washington, 1150
Haleakala National Park, general information, 2472
Haley, Peter W., mobility environmental study one-pass program, 5347
Halfway houses, sociocultural and clinical study of Rutland Corner House, transitional aftercare residence for female psychiatric patients, 1529
Halides, electrolytes, electrowinning tungsten, 7711
see also Alkali halides.
Hall, David G., need for ARS–USDA popular series publications by State extension services, 9795
Hall, Howard L., Peru, market and competitor for U.S. farm products, 13265
Hall, J. Richard, polybenzimidazoles, review, 14522
Hall, Ralph C., sagebrush defoliator outbreak in northern California, 2069
Hall, Lolanda, proceedings against, report, 17339
Hall coefficient of tantalum carbide as function of carbon content, 2421
Haller, Henry C., low-temperature direct-condensing vapor-chamber fin and conducting fin radiators, 1268
Haller, John A., preparation of data for trip desire contour chart, 5127
Halloway, Paul F., heat transfer within regions of separated flow, 1255
Halls, Lowell K.:
rooting cuttings of browse plants, 4458
seasonal twig growth of southern browse plants, 5988
Halls, Tenn., railroad accident, 6098
Halogens:
compounds, radiation synthesis, final report, 15529
flammability characteristics of halogenated hydrocarbons, 9371
Halophiles, photosynthetic, from Owens Lake, 4818
Halstead, Bruce W., poisonous and venomous marine animals of world, 8818
Halstead, D. Kent, college and university endowment, status and management, 7300
Hames Valley, geology, 13398
Hamilton, H. R., socio-economic aspects of water resources, bibliography, 13427
Hamilton, James E.:
effect of luminance on moon illusion, 1626
F–101/F–106 flight simulator flashblindness experiment, 5331
Hamilton, Thomas E., production, prices, employment, and trade in Pacific Northwest forest industries, 3420
Hamilton, Vernon L., soil survey of Wichita County, Kans., 8032
Hamilton, Ohio, commodity transportation, production area series, 9956
Hamke, John R., oilfields in Williston basin, Mont., N. Dak., and S. Dak., 13672
Hammel, H. T., assessing cold tolerance, thermal and metabolic responses to exposure at night, 77
Hammer, Charles H., timeliness and accuracy in sequential decision making task, 8274
Hammers:
electromagnetic, 2374
use in removal of weld distortions, 1218
Hammond, Ind., commodity transportation survey, production area series, 6919
Hammons, Donald B., hog slaughtering and dressing systems, 15448
Hamner, Roger L., linear aerodynamic loads on cone-cylinders at Mach numbers from 0.7 to 2.0, 7735
Hampton, Va., area wage survey, metropolitan area, 14974
Hand drills, *see* Drills (tools).
Hand tools:
census of manufactures, 1963, industry report, 5447
Federal item identification guides for supply cataloging, supplements, 2933
form right angles in component leads, 13781
permit shrink sizing of assembled tubing, 11031
safety dial, 1086
Spain, foreign market survey, 178
stores stock catalog, 4398
price changes, 2032
supplements, 7425, 11956, 14646
ultrasonic, allows convenient scanning of spot welds, 12328
Handbooks, Federal, index, supplements, 3052
see also names of departments, etc., issuing handbooks—*also* subjects.
Handcar Project, *see* Project Handcar (plowshare program).
Handford, John F., basic data on economy of Southern Rhodesia, 342
Handicapped:
books, recordings and other materials for use of blind and other handicapped persons—
hearing, 11660
law, 17092
reports, 10217, 13134
children—
and youth, education, conference report, 10421
education—
grant program for preparation of professional personnel, 4303, 7310
preparation of professional personnel, manual, 16239
financial assistance for physical education.—
hearing, 17386
report, 16161
improving parent care, 1741
military medical benefits act of 1966—
hearings, 13195
reports, 7105, 8612, 16091
something for special child, 7320
visually, educational programs, 8839
coordinator's scoreboard, review of placement, 8393
education and training, adequacy, hearings, 17372

Handicapped—Continued
employment—
address, 8423
Advisory Council of President's Committee on Employment of the Handicapped, special report to the President, 7659
building and maintaining community support, 9197
expansion grants to increase rehabilitation, 11308
handicapped workers, community assets, 1967 report theme contest, 11th and 12th grade students, announcement, 7650
help for handicapped, MDTA training programs, 7641
jobs for, program guide, pursuit of happiness, 14966
more defense business for sheltered workshops, highlights of panel discussion, 2288
performance, story of the handicapped, 3319
seven services, how Employment Service helps the handicapped, 16248
tourists, guide to national parks and monuments, 17805
training and visits, program for supervisors, guide in employment of the handicapped, 10851
Handicraft, bibliography, 12501
Handler, Jane, neighborhood legal services, new dimensions in law, 16904
Handling equipment:
aircraft, ground, Federal item identification guide for supply cataloging, supplements, 2940
body-fitted harness provides safe and easy component handling, 9493
census of manufactures, 1963, industry report, 5448
Federal item identification guides for supply cataloging, supplements, 2932, 2940
mail, savings available through more extensive use, by Post Office Dept., GAO report, 809
petroleum, Army technical manual, 11408, 16966
Hands, hand hazards, safety dial, 1086
Handwerk, Paul S., sport fishery abstracts, 3531
Handwriting, criminological distinction of similar handwritings by computers, USSR study, 14864
Haney, George E., school transfer record system for farm migrant, children, 655
Hanford Works, contractor employees, preferential allowances paid, Richland, Wash., GAO report, 10623
Hanft, Ruth S., national health expenditures by object of expenditure and source of funds, 9658
Hanke, Byron R., land-use intensity standards, LUI scale and zoning, 14631
Hankel functions, *see* Bessel functions.
Hanks, Brantley R., use of penetrometers to determine capability of dust materials to support bearing loads, 4946
Hanks, Leland F., adventitious bud clusters do not degrade black cherry logs, 5978
Hanley, H. J. M., viscosity and thermal conductivity coefficients of dilute argon between 100 and 2000° K, 13865
Hanlon, Paul J., wholesale food distribution facilities for Springfield, Mass., 48
Hanna, Norman E., evaluating incendivity of explosives to coal dust, 16573
Hannaford, Mary M.:
characteristics of patients of medical specialists, etc., 9632
proportion of surgical bill paid by insurance, etc., 15306
Hannibal Locks and Dam, Ohio River, Ohio and W. Va., spillway, hydraulic model investigation, 13297
Hansen, Henry A., waterfowl status report, 7443
Hansen, John P.:
reaction interface speed as reducibility index for iron ore, 15028
reduction of ferrous oxide (wustite) at high temperatures, 4794
Hansen, Morella, background information on Committee on Foreign Relations, Senate, 5806
Hansen's lunar theory, *see* Moon.
Hanson, K. L., thermal integration of electrical power and life support systems for manned space stations, 1181
Hanson, Royce, metropolitan councils of governments, information report, 16915
Harade, Y., graphite-metal carbide composites, 12267
Harbor workers, *see* Longshoremen.
Harbors:
facilities, Navy design manual, changes, 1569
flood control and multi-purpose projects, public works, authorizations, 1965—
law, 400
report, print additional copies, reports, 10197, 17470
flood control and multi-purpose projects, public works authorizations, 1966—
hearings, 17597
reports, 17276, 17533
waterborne commerce, 1964, 676
see also names of harbors, or places where located.
Hard wheat, *see* Wheat.
Hard woods, *see* Hardwoods.
Hardee County, Fla., economic geology, 12011
Hardening of arteries, *see* Arteriosclerosis.
Harding, Bertrand M., nomination, hearing, 14500
Harding, C. F., gravity gradient torque effect on motion of spin axis of asymmetric vehicle, 9407
Harding, W. B., 1000 Kw 2–25 Mc/s distributed amplifier designed for use with 10 Kw ionospheric sounders, 7922
Harding County, S. Dak.:
origin of elements associated with uranium in Cave Hills area, 17719
uranium investigations in Cave Hill area (series), 17719
Hardness:
bearing component differential, effect on life and failure distribution, 1267
dispersion hardening, basic studies, 4817
Hardware:
builders, Army technical manual, 1649, 9903
census of manufactures, 1963, industry report, 5447
Federal item identification guides for supply cataloging, supplements, 2938
Hardware stores, *see* Stores.
Hardwoods:
aerial spraying of low-grade stands, with 2,4,5–T in West Virginia, 10569
cants, cutting can boost sawmill profits, 17684
circular sawmills in Kentucky and Ohio, cause and cost of production delay, 5977
log grades for standard lumber, 17698
log grading at circular sawmills, 5975
low-grade logs, for paneling and flooring, 10566
lumber, cargo, tariff requirement, restore, law, 405
northern—
decay and discoloration following logging wounds, 11994
stand differentiation ability, 799
stands, 4 methods of marking 2d growth, 14700
timber management, on-the-ground demonstration, 11992

239–221—67—No. 863——21

Hardwoods—Continued
pallets, performance, effect of initial moisture content, 14714
sawlogs, cost of scaling and grading, 10602
southern, veneer logs and bolts, major defects, 10608
stands, removing undesirable trees, 10558
survival and 1st-year growth in saturated soils, 16335
tropical—
solar drying, 16338
suspension of duty—
law, 8468
report, 4171
U.S. imports grow as world supplies expand, 2078
understory, retard growth of shortleaf pine in Missouri, 794
Hardy, Edward P., jr., Health and Safety Laboratory fallout program, quarterly summary reports, 5391, 8283, 12679
Hardy, Kenneth A., SAM high level cobalt-60 irradiation facility, 1623
Harlan, Iowa, motor carrier accident, 6091
Harllee, F. N., bibliography on ion-molecule reactions, 13864
Harllee, John:
addresses, etc.—
Dec. 2, 1965, 700
Jan. 12, 1966, 4378
Mar. 3, 1966, 5939
Apr. 6, 1966, 7371
May 3, 1966, 8902
May 20, 1966, 10905
May 24, 1966, 10476
Sept. 14, 1966, 14633
Oct. 4, 1966, 17654
Harman, Cameron G., non-glassy inorganic fibers and composites, 15086
Harmon, Hubert R., memorial lectures in military history (series), 14166
Harmond, Jesse E.:
automatic pickup for bags, tags, and cartons in packaging and labeling agricultural products, 6710
precision vacuum-type planter head, 3728
Harmonic functions:
generation of optical harmonics, 6143
sensitivity of short-period tracking data from lunar satellite to lunar gravitational field harmonics, 1271
Vinti's accurate reference orbit with inclusion of 3d zonal harmonic computational procedure, 15170
Harner, Rodney F., soil survey report, Finney County, Kans., 2571
Harness, Vernon L.:
cotton in—
India, 2055
Syria, 13353
Turkey, 16319
Harnesses, body-fitted, for component handling, 9493
Harp, Emmett R., simplified pollen trap for use on colonies of honey bees, 9773
Harper, William B., carbon black, 13676
Harpers Ferry National Historical Park, general information, 9572
Harrar, E. S., major defects in southern hardwood veneer logs and bolts, 10608
Harrer, Clarence M., iron resources of South Dakota, 6286
Harrigill, William T., jr., high-power-level temperature controller for space flight applications, 7842
Harris, A. S.:
aerial seeding sitka spruce and western hemlock on cutover area in southeast Alaska, 4444
test of pruning sitka spruce in Alaska, 13357
Harris, Dale W., design procedure for weight optimization of straight finned radiators, 15143
Harris, David W., NASA/MOTS optical, observations of ANNA 1B satellite, 4923
Harris, Henry M., devitrification of lithium, disilicate glass, 2354
Harris, J. Donald:
hearing-loss trend curves and damage-risk criterion in diesel-engineroom personnel, 13659
monaural and binaural speech intelligibility and stereophonic effect based on temporal cues, 14993
pure-tone acuity and intelligibility of everyday speech, 13667
Harris, Roy V., jr.:
drag characteristics of low-drag bodies of revolution, 4920
wave drag at lifting conditions, 16666
Harris Neck National Wildlife Refuge:
birds, list, 16308
general information, 14669
Harrisburg, Pa., commodity transportation survey, production area series, 9952
Harrison, E. R.:
cosmology without general relativity, 6423
equation of state of matter at supernuclear density, 1247
Harrison Experimental Forest Arboretum, pine species, 5996
Harrodsburg limestone in Kentucky, 9015
Harshbarger, J. W., Arizona water, 9021
Hart, Elizabeth F., I & N reporter, 3049
Hartford, Conn.:
commodity transportation survey, production area series, 8340
dental health programs, 6586
Hartley, Jack L., astrostomatology, dental standards for selection and examination of space crewmen, 12641
Hartman, Bryce O.:
factors affecting aircrew morale, 15490
performance upon sudden awakening, 97–98
Hartman, Lawton M., weather modification and control, 10280
Hartwell, John W., mineral industry of Maine, 17843
Harvesting:
Crossett farm forestry forties, 1965 harvest, 10589
logging in southeast Kentucky, costs and returns on mechanized operation, 5976
Harvey, Gale A.:
photographic observations of low-density iron artificial meteoroid, 11055
photometric analysis of spectrograms of 2 Trailblazer I payload reentry events, 9520
Harvey, John M., air transport of California strawberries, factors affecting market quality, 12609
Harvey, Thomas W.:
addresses, etc.—
Mar. 29, 1966, 7271
June 2, 1966, 10398
Harwell, Robert A., relief, 12879
Haskell Institute:
concurrent jurisdiction, retrocede to Kansas—
law, 11551
reports, 7097, 10312
Hassan, H. A., coaxial Hall current accelerators at moderate pressures, 16648
Haswell, Harold A., undergraduate curriculum patterns, survey of baccalaureate programs, 4320
Hatakeyama, Lawrence F., data loading routine for IBM 7094 and 7094–704X systems, 7811
Hatch, Winslow R.:
approach to independent study, 4313
new dimensions in higher education approach to teaching, 13277
Hatcheries, *see* Chickens—Fish and fisheries—Poultry—Turkeys.

Hatches:
concealed hinge permits flush mounting, 13771
cover plate, inflatable O-ring seal would ease closing, 15115
Hatton, T. T. jr., ripening and storage of Florida mangos, 47
Haun, J. R., fiber and papermaking characteristics of bamboo, 14164
Hauser, Victor L., hydrology, etc., of runoff water in playas on southern High Plains, 15435
Hauty, G. T.:
phase shift of human circadian system and performance deficit during periods of transition—
East-West flight, 8308
North-South flight, 9936
West-East flight, 11446
Havana Solidarity Conference, international opinion, 4603
Havas, Nick, profile of retail florist industry, 51
Havasu Lake National Wildlife Refuge, birds, list, 14662
Havens, John S., recharge studies on High Plains in northern Lea County, N. Mex., 10650
Haverhill, Mass.:
area wage survey, metropolitan area, 14975
commodity transportation survey, production area series, 8339
Haviland, Virginia, children's books, 1965, list, 7681
Havill, C. Dewey, supercircular entry guidance concept designed for maximum monitoring capability, 17926
Having the power, we have the duty, 12565, 18143
Hawaii:
air carrier routes, map, 3952
chemistry of lavas of 1959–60 eruption of Kilauea Volcano, 7488
climatological data, 2751
coast pilot supplement, 5534
copepod crustaceans parasitic on elasmobranch fishes of Hawaiian Islands, 9567
county business patterns, 1964, 1716, 5462
divorced persons, characteristics, 1960–61, 1444
East Kauai Soil and Water Conservation District, native-built terraces where rice and taro grow (colored poster), 9670
electric rate book, 707
elementary and secondary education amendments of 1966, hearing, 14416
fisheries, annual summaries, 745, 13341
forest plantings, record, 2079
Kilauea Volcano, 1959–60 eruption (series), 4523–24, 7488, 12026
leased lands, authorize Farmers Home administration loans—
law, 15756
reports, 11768, 14398
life tables, 18019
lights and fog signals list, changes, 1337, 6522, 9582, 13895
manufacturing plants, location by county, industry and employment size, 1963 census, 16997
map of U.S. showing principal islands of Hawaii, inset, announcement and order form, 17999
mineral industry, minerals yearbook chapter, 1124
moluccа albizzia—
and nepal alder, machining properties, 10563
physical and mechanical properties, 8970
nautical chart catalog, 6989
nursing home care for veterans, eliminate certain requirements, reports, 10134, 11744
petrography of lavas of 1959–60 eruption of Kilauea Volcano, 4524
Hawaii—Continued
population-migration reports, revised estimates notice, 7295
principal electric facilities, map, 7381
rain forest, naturalization of Java podocarpus, 2070
reemployment leave travel benefits granted employees of Defense Dept. and other agencies, GAO report, 8998
storm warning facilities chart, 12560
telephone poles, service life, 10583
tide tables, 6987
trade with Orient (remarks), 4030
volcano observatory, summary, 3035
wood posts, durability test, 2d progress report, 10579
Hawaiian Islands, *see* Hawaii.
Hawaiian Volcano Observatory, summary, 3035
Hawkins, William C., aerospace maintenance safety, 2644
Hawley, C. A., jr., controlled environmental radioiodine test at National Reactor Testing Station, 1965, progress report, 8284
Hawley, C. C., geology and uranium deposits of Temple Mountain district, Emery County, Utah, 9007
Hay:
and silage, cattle feeding rack, 11362
Appalachian hillside pasture, basic information, 12606, 15447
Pangola, cesium-137 binding characteristics, 2522
Hayden, L. O.:
optical calibration analysis of U.S. naval space surveillance system, 16761
transistorized digital clock with serial binary-coded readout, 16765
Hayes, Jack, protecting our food, yearbook of agriculture, 16940
Haynes, George W., controllability of nonlinear systems, 9428
Hayward, Calif., fault zone, tectonic creep, 4517
Haywood, F. F., operations plan, Operation Henre, 143
Hazard, John W., timber resource statistics for southwest Washington, 5999
Hazard insurance, cancel on properties acquired by VA upon default of housing loans, GAO report, 13383
Hazardous occupations, *see* Occupations.
Hazardous substances:
chemical data guide for bulk shipment by water, 10007
eye irritation, grading, illustrated guide, 2051
labeling act—
amend—
hearings, 15979
reports, 15942, 16121
general information, 7449
text, 10549
packaging and handling for military aircraft transportation, Air Force manual, 8175
self-contained clothing system provides protection against hazardous environment, 9492
transportation of dangerous articles, etc., Federal aviation regulations, 691, 14608
Hazel, Joe T.:
evaluation of airman jobs by 4 categories of raters, 16950
officer grade requirements project, job descriptions, sample selection, and criterion board, 6806
Hazen, Scott W., jr., mineral deposit exploration, 12245
Hazen, Ark., motor carrier accident, 9057
Head:
cancer, 5105
injury, potential, from airline seats during crash decelerations, 14243
selected facial measurements of children for oxygen-mask design, 15555

Head Start Project, *see* Project Head Start.
Headgear, census of manufacturing, 1963, industry statistics, 8330
Headstones, *see* Tombstones.
Headwear, *see* Headgear.
Healer, J., summary report on review of biological mechanisms for application to instrument design, 7737
Health:
achievements and further recommendations, message from the President, 5616
activities of HEW, background material, 13050
allied health professions personnel training act of 1966—
hearings, 10249, 17591
reports, 10225, 15841, 17535
and hygiene, PACAF basic bibliographies, 6804
and sanitation, Naval Medical Research Unit, agreement with Ethiopia, 8075
benefits program for retired members, and dependents of members of uniformed services—
hearings, 13195
reports, 7105, 8612, 16091
careers guidebook, 1987
chronic health care, comparison of British, Canadian, Australian, and American methodology, 11684
community facilities, facts for Hill-Burton applicants, 13955
community health research—
opportunities in services and medical care, 5118
research training grants and fellowship programs, 1433
community planning grants for heart disease, cancer, and stroke, 14757
community services—
Chronic Diseases Division research grants program, 2539
out-of-hospital services for children and youth, project grants, 18068
comprehensive health planning and public health services amendments—
hearings, 7230, 17386
reports, 16161, 17308
comprehensive services for children and youth, project grants, policies and procedures, 3944
consumer information, price list, 2519
data from hospital discharge survey, 18081
department, oblast, organization of work, USSR study, 908
documents and committee reports, 12486–487, 14000, 18079
education for health, report, 6575
education vs medical quackery, 2053
emergency activities, appropriations 1967, hearings, 8651
emergency preparedness, publications catalog, 11186
employee health services, trends, 1437
environmental health series—
air pollution, 6577, 13961
Arctic health, 5104
food protection, 2526, 13952, 15276
references and abstracts, 12466
water supply and pollution control, 9624
evolution and human health, molecular diseases, USSR study, 2200
examination survey, children ages 6–11, psychological measures, 8004
facilities, training needs, 7328
fakes and swindles in health field, catalog, 7448
Federal surplus personal property acquisition, 9027
foreign aid program for 1967, new initiatives, 9053
get your A, eat type A school lunch every day, poster, 10374
guide, Peace Corps volunteers manual, 9607
Health—Continued
health economics series, 13966
health information leaflets and pamphlets, list, 11191, 15286
health information series, 1420–21, 2529, 6580, 7994–95, 9625, 11185, 12471, 13967–968, 15279–281, 16796–799, 18006
health interview survey—
current estimates, July 1964–June 1965, 2543
disability days, July 1963–June 1964, statistics, 1438
health mobilization series, 1422, 5107, 7996, 11186, 13970, 18007
healthier working conditions in far north, 17769
index, conceptual problems in developing, 9631
Indian Health Division pediatrics residency program, 2524
Indians—
highlights, 15284
program, Operation SAM, system analysis module for development, 15292
Public Health Service program, 11190
indicators, 3037
industrial, engineers and chemists syllabus for short courses, laboratory manual, 16802
industrial workers, publications, price list, 7986
infants, guarding, USSR studies, 9074
international health act of 1966—
hearings, 5698
report, 7084
international programs, message from the President, 5607
Kazakhstan, progress, 14915
kidney disease guide for public health personnel workers, 5110
legislative achievements, 4538
livestock and poultry movement, ARS requirements, etc., 3733
longshoring, regulations, 16526
manpower source book, nursing personnel, 13969
maternal and child, needs and services, effects of recent demographic trends, 11484
medical care and transportation of injured, action program for highway safety, 5130
mobilization, training literature, list, 7996
national expenditures, 2566, 9658
national trends, 13421
needs of Nation, panel summaries from White House Conference on Health, 5231
new programs, sound of approaching help, 11195
nursing in occupational health, 1426
occupational—
bibliography, 6570–71
Federal units, administrative guide, 12459
national survey findings, 13975
working women, 2530
personal health expenses, 6588
persons erroneously vaccinated with brucellosis vaccine, USSR study, 10832
portraits in community health (series), 1438
professional training and cooperation amendments of 1966—
hearings, 15979
report, 17269
professions—
education (address), 1418
education, publications, bibliography, 5108
educational assistance, extend and expand, law, summary, 4534
scholarship program, 6581, 11107
projects supported by AID, 4579
protecting and improving through radiological sciences, 13988

Health—Continued
public—
code of Federal regulations, 10507
dental programs, State, digest, 12463
dentists and dental hygienists salaries, local departments, 12484
expenditures, USSR, 17763
in African countries, development trends, USSR study, 7555
laws, compilation, 13049
problems in RSFSR, 7596
public health bibliography series, 1431, 11196, 12481, 13985–986, 18069–70
public health centers, Hill-Burton State plan data, 11189
public health engineering abstracts, 3426
public health monograph series, 5116
public health reports, 3427
service in rural regions of Soviet Union and Bloc countries, 7557
Soviet public health (periodical), translations, 9188, 12111, 12162, 12172
State salary ranges, 836, 10657
traineeship program awards, individual, 5102
traineeships for professional personnel, 5119
USSR and bloc countries, 4618
Public Health Service grants, etc., 1965 funds—
construction of research facilities, 6491
formula and project grants, 6492
research, 5033
summary tables and graphic highlights, 9560
training grants, traineeships, fellowships, etc., 6490
Public Health Service grants to—
Illinois, administration, GAO report, 13380
Indiana, financial administration, GAO review, 16347
publications, price list, 11179
radiation safety and health standards for Federal supply contracts under Walsh-Healy public contracts, act, regulations, 11313
radiological data, monthly report, 3451
radiological health—
manual for experimental gas-cooled reactor, 5389
mobile training laboratory, 15300
recent translations, selected list, 3455
reference facts, 6047
report of Committee on Health, National Citizens Commission, 1546
research facilities, guidelines for architectural-engineering documents for grants, 15267
restore man, national goal, 18075
school program, outline for school and community, 15302
service personnel, education, clarify responsibility of VA—
hearing, 8787
reports, 5651, 17540
services—
for mentally retarded, training for, 279
in the South, desegregation, survey, 5516
research relating to children, studies in progress, 12734
school, focus resources, 18004
socialize, Turkey, 4607
training workers—
critical challenge, conference proceedings, 14759A
job development, 14759
smoking and health, educational materials, 12469
standards and general safety for Federal supply contracts under Walsh-Healy public contracts act, regulations, 12558
State data and rankings, 16365

Health—Continued
statistics—
analytical studies, 5121
data evaluation and methods research, 5120, 8004, 9631, 11198, 13999, 15305
data from national health survey, 1438–40, 2543–44, 5122, 6587–89, 8005, 9632–33, 11199, 12488–489, 14001, 15306–310, 18080
data from National Vital Statistics System, 1441–44, 9634, 11200, 16811–812, 18082–83
methodological problems, USSR study, 12152
report of 15th anniversary conference of United States National Committee on Vital and Health Statistics, 12487
surplus property utilization—
hearings, 15972
report, 17346
Tadzhikistan public health, 14905
travel information—
Africa, including Malagasy Republic and neighboring islands, 12470
Asia, etc., Australia and New Zealand, 6579, 16795
Europe, 11183
Mexico, Central and South America, and Caribbean, 11184
voluntary health agency expenditures for research and research training, 5035
voluntary health and welfare agencies, fund-raising within Federal service, manual, 1756, 3178, 6968, 11499, 17043
white-nonwhite differentials in health, education, and welfare, 837
see also Medical care—Mental health.
Health and Safety Laboratory, AEC fallout program, quarterly summary reports, 146, 5391, 8283, 12679
Health and Safety Research and Testing Center, research and technologic work, 17837
Health and Vital Statistics, United States National Committee on, *see* United States National Committee on Vital and Health Statistics.
Health boards and departments:
accidental injury control programs at local levels, guide to development, 1419
State and territorial health authorities, 1966, directory, 16793
Health, Education, and Welfare Department:
absences of trainees enrolled in institutional programs, GAO report, 8993
activities concerning alcoholism, 7492
air pollution control standards, implementing executive order, 11181
air pollution prevention act, control activities, law, description, 2107
appropriation, 1966, supplemental, proposal, 5608
appropriations, 1967—
amendments, 13067A, 17171
hearings, 7113, 8650, 14472
reports, 8626, 16151, 17350
Assistant Secretary, nomination of Paul A. Miller, hearing, 17593
consumer services, transfer to Consumers Department, hearings, 15970
donable surplus property program, hearings, 4221
field directory, 13420
financial assistance programs for mental retardation, 7495
foreign assistance appropriations, 1966, report, 545
grants-in-aid and other financial assistance programs administered, 14758
impact of 1965 legislation, 4532
handbook on programs, major program and legislative achievements, 4533
health activities, background material, 13050
manpower training facilities, selection, etc., in Chicago, Ill., GAO report, 12006

Health, Education, and Welfare Department—Continued
mental retardation activities, 7496
mental retardation grants awarded—
1965, lists, 2108
1966, lists, 17732
new AoA, Administration on Aging, general information, 2
organization, investigation—
hearings, 15978
report, 17303
press releases, 3374
programs and services, general information, compendium, 16366
reference facts on health, education, and welfare, 6047
reorganization, hearings, 4224, 8778, 10349, 14484, 17582
report, 12035
Secretary's Advisory Committee on Management of National Institutes of Health Research Contracts and Grants, report, 10656
staff development progress report, 1965 fiscal year, 14585
Surplus Property Utilization Division, regional representatives directory, 12036
Health, education, and welfare indicators, 3037
Health insurance:
aged persons, *see*, below, medicare.
Blue Cross and Blue Shield plans—
enrollment, 1964, 1469
finances, 5145
hospital and surgical-medical benefits available to Public Health Dept., District of Columbia government, GAO report, 4498
credit, for student loans, increase maximum amount allowable in D.C.—
law, 17108
report, 15852
extent of coverage in U.S., 6612
farmers and farm workers under, 15332
Federal employees—
Federal personnel manual, supp., 2949
health benefits act, amend to permit additional plans, reports, 5669, 8542
health benefits act amendments, 7160
health benefits act, preserve benefits for congressional employees receiving staff fellowships—
law, 7043
reports, 1844, 5789
health benefits, retired Federal employees health benefits, 1965 report, 6965
retired, benefits act, amend with respect to Govt. contribution for administration, report, 17194
group, adapting to medicare, 10853
health insurance for the aged, HIM (series), 8023–24, 9652, 12507–509, 15326
independent plans, 15331
interview response compared with insurance records, 15305
medicare—
brief explanation, 2561, 9656
conditions for coverage of services of independent laboratories, 9652
conditions for participating hospitals, 5142, 15326
conditions of participation for—
extended care facilities, 8024
home health agencies, 8023
employee-benefit health plans adjustments, 11230
enrollment for supplementary medical insurance, July 1, 1966, 16829
extend deadline for enrollment—
law, 8460
message from the President, 8500
reports, 8605, 8728
handbooks, 11229, 12512, 16832
home health agency manual, 12509
hospital manual for billing, 12508
Health insurance—Continued
medicare—continued
medical benefits, 16830
podiatrists' services, payment under supplementary program, report, 17335
provider costs, reimbursement, 12507
questions and answers, 8026
reference guide for physicians, 11228
social security amendments of 1965—
health insurance provisions, annotated text, 5792
law, print additional copies, report, 13005
new benefits awarded, 2567
Senate amendments, brief description, 1937
summary, 7209
social security beneficiaries who live outside United States, message for, 2562
social security rulings, 6613
your medicare handbook—
health insurance, 12512
hospital insurance, 11229
medical insurance, 16832
proportion of surgical bill paid by insurance, 15306
provisions, 1935–65 legislative history, 2564
Health resorts, all-Union congress of physiotherapeutists and health-resort scientists in Baku, 16459
Health scientist administrators, examination announcements, 8402, 9995
Health Statistics, National Center for, *see* National Center for Health Statistics.
Health, White House Conference on, *see* White House Conference on Health.
Heare, Gertrude, establishing business in Brazil, 7009
Hearin-Miller Transporters, Inc., accident, 6099
Hearing:
adults, levels by age and sex, U.S., 2544
and speech disorders, summary of progress, 1314
auxiliary stimuli, effect of intensity changes on auditory and visual signal detection, 5317
monaural and binaural speech intelligibility and stereophonic effect based on temporal cues, 14993
monaural versus binaural discrimination for filtered CNC materials, impaired auditory mechanism, 15491
normal auditory mechanism, monaural vs. binaural discrimination, 5330
screening in selected classes for mentally retarded, Detroit, Mich., 14283
see also Deaf.
Hearing aids:
ear, Tariff Commission report, 15385
monaural and binaural speech intelligibility and stereophonic effect based on temporal cues, 14993
Hearing examiners, examination announcement, amendment, 3968
Hearn, George H.:
remarks—
Dec. 7, 1965, 702
Mar. 23, 1966, 7369
Apr. 20, 1966, 8901
May 19, 1966, 10477
Hearn, Jackson B., basic data on economy of Afghanistan, 11518
Heart:
black bears', rate in relation to age, 6798
cardiac activity, phase analysis, USSR study, 14953
cardiac output, computer circuit calculates, 4843
cardiac studies based on cosmonaut experience, USSR, 9137
electric current stimulates heart action, USSR, 916
heart research news (periodical), 3038

Heart—Continued
human and animal, restoration of contractility and prospects for transplantation, 4996, 7899
minute heart volume, USSR study, 6125
muscle, oxygen pressure change during ascent and acceleration, USSR study, 1027
surgery, new methods, USSR studies, 919
vibrocardiographic system study, 10969
see also Ballistocardiography.
Heart diseases:
and the psyche, review of research grants, 12472
cardiac patients, physical-conditioning program, 16983
community health planning grants, 14757
endocarditis, bibliography, 6576
habits and coronary heart disease, Framingham heart study, 18005
how doctors diagnose, 1421
hypertension and hypertensive heart disease in adults, 9633
in children, training program in cardiology, workshop proceedings, 6582
myocardial infarction, cardiovascular response to exercise, problems in aeromedical certification, 16982
rheumatic heart disease, review of research grants, 18076
Heart River, drainage basin, surface water, sedimentation and chemical quality, 14755
Heart rot, balsam fir, 14695
Heart sounds, *see* Phonocardiographs.
Heat:
ablative heat-shield materials, high-velocity impact craters in determination of temperature and material effects, 16689
activates storage-stable foamable polyurethane, 10985
flow, underground, East Tintic district, Utah, 4521
freezing and melting of sea ice, 16956
heat calculation of equipment for desalting water by freezing, USSR study, 4649
heated die facilitates tungsten forming, 6373
high fluxes, air-cured ceramic coating insulates against, 1232
high-temperature—
contents and entropies of 2 praseodymium oxides and 3 terbium oxides, 12248
contents and entropies of 2 zinc sulfides, 4 solid solutions of zinc and iron sulfides, 2353
nuclear heating, simulated, liquid hydrogen in propellant tank, 6467
ocean thermal structure forecasting, ASWEPS manual, 12411
radial heat equation and Laplace transforms, 2361
sets of similarity ratios for thermal modeling, 11072
shield ablation measurements using radioisotope techniques, 7852
shield, char-front recession, determination with nucleonic technique, 9511
see also Heat transfer.
Heat exchange, *see* Heat transfer.
Heat exchangers:
gas-to-liquid, for Brayton cycles in space, 9430, 10939
horizontal multitube, with steam condensing inside tubes, 17928
hypothermia induced, use to study central nervous system changes, 3780
vapor reheat liquid-liquid heat exchange process, analysis data correlation and optimization, 14772
Heat flux, *see* Heat transfer.
Heat of activation, relation to heat of adsorption for reduction of wustite and magnetite, 4789
Heat of adsorption:
in relation to heat of activation for reduction of wustite and magnetite, 4789
phenomena, and mechanism of reduction of iron oxides with carbon monoxide, 16577
Heat of formation:
and glass-crystal transformation of nepheline, 10922
anhydrous carbonates of barium, strontium and lead, 13698
beryllium sulfate and its hydrates, 6316
neodymium trichloride, 1167
scandium trichloride, 1168
Heat of fusion, iron, use of diphenyl ether calorimeter for measuring, 6315
Heat of hydration, portland cement, interrelations between cement and concrete properties, 13855
Heat of reaction, used in static water removal from fuel cells, 4850
Heat pumps, heating and cooling homes, 12598
Heat sink:
circuitry, supported with rugged microelectronic module package, 11037
contact with beryllia washer improved by mounting, 7798
copper foil provides uniform heat sink path, 4841
Heat transfer:
aerodynamic, use of fusible temperature indicators for obtaining data, 4986
and friction factor correlation for irradiated organic coolants, 9920
and pressure distributions on 60° and 70° swept delta wings having turbulent boundary layers, 16697
Apollo afterbody, with and without ablation, 16683
Apollo command module, effect of protuberances, etc., on distribution, 16647
apparatus measures thermal conductivity of honeycomb-core panels, 7783
buoyancy effects on critical heat flux of forced convective boiling in vertical flow, 16707
carbon steel surfaces corrosion, 4557
central fin-tube radiators, comparison of 1- and 2-dimensional heat-transfer calculations, 16698
coefficient and friction factor data for dilute gas-solid suspensions, analysis and correlation, 15192
computer program solves flow problems, 16627
conduction at stagnation point of argon gas, effects of magnetic field, 6436
convective and radiative, during superorbital entry, 16600
creeping flow solution of Leidenfrost phenomenon, 2419
critical heat flux for saturated pool boiling from horizontal and vertical wires in reduced gravity, 4905
cryogenic hydrogen flowing in tubes at subcritical and supercritical pressures to 800 pounds per square inch absolute, experimental results, 7815
energy requirement for placing instrument package under ice, 8236
forced convection—
boiling burnout for water in uniformly heated tubular test sections, 8288
effect of melting, 6831
freon provides heat transfer for solid CO_2 calibration standard, 12299
gas containing cloud of particles, 1185
heat-shield materials, evaluation at various heat-transfer rates, 17914
interfacial, in pressurized tank containing liquid hydrogen, 6425
interference heating on swept cylinder in region of intersection with wedge, 2411

Heat transfer—Continued
laminar, in arc-heated nitrogen streams, effect of discontinuities in surface catalytic activity, 15198
liquid-metal flow in round tube or flat duct with heat sources in fluid stream, 12353
local coefficients, condensation of steam in vertical downflow within ⅝ inch tube, 6466
local turbulent, for water in entrance regions of tubes with various unheated starting lengths, 1264
mantle convection, effect of low viscosity layer, 11396
measurements, in conical nozzle with controlled inlet velocity profile, 7822, 17911
modified Stefan problem, analysis, 9888
passive thermal behavior of orbiting space station, analog study, 17920
plane thermoelastic deformation of internally heated annular disks or hollow cylinders, 4985
Plum Brook reactor, analysis, 15165
radiant energy transport in BeO, 1352
radiator panels utilizing shared fins, heat-rejection characteristics, 15189
rates, low, measured by thin-film gage, 9484
separated flow regions, at Mach no. 6.0, 1255
sharp and blunt flat plates on Mach 6.8, 7847
tests—
delta wings with laminar and turbulent boundary layers, 15047
flat plate with flap and delta wing, etc., 15048
surface roughness elements with laminar and turbulent boundary layers, 15049
thermal conductivity coefficients of dilute argon between 100 and 2000° K, 13865
thermal conductivity of—
hydrogen, 2000° to 4700° F, 7728
polar gases and their equimolar mixtures, 7850
soils, measurement methods, 3817
tungsten, 7727
thermal property variations, effect on performance of charring ablator, analytical determination, 12359
thermionic diode heat transferred by bypass rod, 13739
turbulent flow in smooth tubes for reacting N_2O_4–NO_2 system, 4964
two-dimensional, in radiating stainless-steel-clad copper fins, 4903
vapor compression distillation using secondary heat transfer media for sea water conversion, 6063
vapor condensation, heat exchange, 4989
vapor reheat liquid-liquid heat exchange process, analysis data correlation and optimization, 14772
zero- and reduced-gravity simulation on magnetic-colloid pool-boiling system, 6452
see also Thermal radiation.
Heaters:
arc air heater, operating characteristics of direct current as opposed to alternating current, 7874
auxiliary coil controls temperature of RF induction heater, 6393
optimum brine, outlet temperature in sea water conversion evaporators, 12053
see also Unit heaters.
Heath, R. C., changing pattern of groundwater development on Long Island, N.Y., 9016
Heating:
bilayer sheet in welding with laser beam, USSR study, 16463
Central Laboratory for Ventilation and Heating Industry, regulations, Eastern Europe, 7545
Heating—Continued
electron bombardment, effects on tensile properties of tungsten, 1371
homes, heat pumps, 12598
wall and bottom, liquid hydrogen in propellant tank, 6439
see also Aerodynamic heating.
Heating apparatus and supplies:
current industrial reports, 2817, 15585
equipment, Federal item identification guides for supply cataloging, supplements, 2935
except electric, and plumbing fixtures, census of manufactures, 1963, industry report, 6907
residential central heating equipment market in United Kingdom, 10025
Heating elements, *see* Electric heating elements.
Heber, Rick F., bibliography of world literature on mental retardation, supp., 6493
Hebrew language, Foreign Service Institute, basic course, 8061
Heck, L. W., Delaware place names, 13404
Heckler, C. H., jr.:
all-magnetic PCM telemetry system—feasibility breadboard, 17879
review of breadboard, 9409
Hedden, O. K., equipment for applying soil pesticides, 5284
Hedgehogs, Turkey, description and distribution, 1325
Hedges, Janice N., future jobs for high school girls, 11328
Heebink, B. G., paneling and flooring from low-grade hardwood logs, 10566
Heede, Burchard H., design, construction and cost of rock check dams, 13372
Heflin, Woodford A., aerospace glossary, 9843
Heggested, Wayne A., family care treatment of mentally ill, 12551
Heidbreder, Elizabeth, retailing, 11220
Heidmann, Marcus F.:
analysis of n-heptane vaporization in unstable combustor with traveling transverse oscillations, 9537
tangential velocity effects on spinning transverse combustion instability, 9531
Heifers, *see* Cows.
Heimann, Rene H., relief, 10114
Heimer, Walter I., practice effects, knowledge of results and transfer in pitch discrimination, 11155
Heimlich, Richard W., chemicals, quarterly industry report, 2746
Heindl, L. A., Mesozoic(?) rocks in Baboquivari Mountains, Papago Indian Reservation, Ariz., 2090
Heine, Irwin M., assistance to maritime industries in Western Hemisphere nations, 10898
Heinen, Harold J., influence of repetitive electrolysis on winning molybdenum, 16579
Heinrich, Kurt F. J., cooperative action on determination of X-ray mass attenuation coefficients, 5017
Heinzelmann, Fred, factors influencing prophylaxis behavior with respect to rheumatic fever, 2527
Heirloom seafood recipes to treasure, 16299
Helfand, Sol. D., retail sales, 14279
Helfman, Robert S., MAP fixed-point, packing-unpacking routine for IBM 7094 computer, 17690
Helicopters:
basic handbook, 4430
certification and operations of scheduled air carriers with helicopters, Federal aviation regulations, changes, 2008, 14611–612
CH–47A Chinook helicopter, tests in soft clay soils, 4337
detachable ground handling wheel assemblies procurement, Army Dept., GAO, review, 17713
fertilizing of foothill range, 17694

Helicopters—Continued
flight test guide, private and commercial pilot, 2010
flight test program to investigate methods of improving compound helicopter maneuver capability, 8231
hingeless rotor, handling qualities, 11053
induced air exchange over Thule AB, Greenland, dissipation of warm fog, experiments, 118
large, flight study showing trends of lateral and longitudinal control response with size, 16672
shaft-driven heavy lift—
main power system, 1672
power transmission studies, 137
tandem-rotor, transmission study, 138
single-engine turbine, engine failure protective warning systems, requirements, 3838
small business, role in air transportation industry, hearings, 14442
stations, planning and construction, USSR study, 10809
UH–1 compound, high performance, maneuver flight test program, 8273
UH–1D, aircrew armored seat crash, survival analyses, 139
Heliotechnology, *see* Sun.
Heliotechnology (USSR periodical), translation, 10725
Heliports:
District of Columbia, establish, hearings, 15988
drainage and erosion control, Army technical manual, 1654
planning and construction of helicopter stations, USSR study, 10809
Helium:
effects of metastable atoms on volume ion production in tenuous plasma, 1280, 12334
energy and angular distributions of electrons ejected by protons, 16695
film coefficients of heat transfer at 2,000° to 2,500°F in turbulent flow, 17865
method of analysis of impurities in parts-per-billion range, 12246
minerals yearbook chapter, 15009
permeation of glass in vacuum systems, treatment reduces, 15102
replacement of nitrogen in air, analysis of effect on development of chick embryos, 978
verbal communication intelligibility in breathing mixtures of oxygen-helium at low atmospheric pressures, 8205
Hellman, S. K., use of radiation techniques for inhibition of bacterial growth in liquid media, 5393
Helme, William H.:
evaluation of differential classification tests for ACB, 1673
validation of experimental electronics information tests for enlisted classification, 5377
validation of experimental tool and trade knowledge tests, 3840
Helmer, Frank V., nomination, hearings, 4215
Helmers, A. E., some effects of log jams and flooding in salmon spawning stream, 13358
Helmets, assembly, one-piece transparent shell improves design, 15120
Helmholtz equation, *see* Equations.
Helms, Richard, nomination, hearing, 11790
Helping people in groups, 6 background papers from Workshop on Group Services, Apr. 19–23, 1965:
French edition, 14583
Spanish edition, 14584
Hely, Allen G., hydrologic regimen of Salton Sea, Calif., 1636
Hematocrit, fish, electronic method of measuring, evaluation, 14674
Hematology, *see* Blood.
Hemenway, D. F., UHF AEW radar observations of elevated tradewind ducts, 7974
Hemicholinum, inhibitor of acetylcholine synthesis, pharmacological characteristics, USSR study, 956
HemisFair 1968:
U.S. participation, amend act—
hearing, 15967
reports, 12957, 16166
Hemisphere, Eastern, foreign air carriers, routes to U.S. authorized under permit, map, 3957
Hemisphere, Northern:
atmosphere, density variations, USSR study, 6241
cold regions, defining, 16958
daily synoptic weather maps, 2827
energy transformation in atmosphere of Northern and Southern Hemispheres and interaction of processes in both hemispheres, 2442
Hemisphere, Southern, energy transformation in atmosphere of Northern and Southern Hemispheres and interaction of processes in both hemispheres, 2442
Hemisphere, Western:
agricultural economies of dependent territories, 4285
agricultural situation, 1965 review, 1966 outlook, 8835
foreign air carriers, routes to U.S. authorized under permit, map, 3958
Latin American development and Western Hemisphere trade—
hearings, 455
subcommittee report, 7051
nations, assistance to maritime industries, 10898
western Hemisphere supply and demand study (series), 11865
Hemlock:
western—
aerial seeding on cutover area in southeast Alaska, 4444
phenology, and oviposition of blackheaded budworm, preference, 13360
young-growth, volume tables and equations in southeast Alaska, 8960
Hemlock sawfly, *see* Flies.
Hemmig, P. B., conference on neutron cross section technology, proceedings, 15528
Hemodialyzers, *see* Artificial kidney.
Hemophilia, general information, 16798
Hemopoiesis, *see* Blood.
Hempstead, N.Y., population, special census of town, 5494
Henderson, Douglas, theory of liquids, 17740
Henderson, Madeline M., cooperation, convertibility, and compatibility among information systems, literature review, 11091
Henderson, William P., factors affecting drag due to lift at subsonic speeds, 16664
Hendricks, T. A., resources of oil, gas, and natural-gas liquids in U.S. and world, 2101
Hendrickson, George, strength studies on Antarctic sea ice, 119
Hendrickson, Nora A., relief, 15802
Hendrix, William E., changes in agriculture in 26 developing nations, 630
Henegar, Dale L., minimum lethal levels of toxaphene as piscicide in North Dakota lakes, 11977
Henkes, William C.:
mineral industry of—
Algeria, 4760
Angola, Mozambique and Portuguese Guinea, 6294
Ghana, 4764
Libya, 2330
Nigeria, 2338
Republic of Congo (Léopoldville), 4776
Senegal, 2342
Tunisia, 2345
United Arab Republic (Egypt), 4781

Henning, John F., address, Jan. 12, 1966, 4697
Henre operation, *see* Operation Henre (high energy neutron reactions experiment).
Henricks, Robert C., heat transfer results for cryogenic hydrogen flowing in tubes at subcritical and supercritical pressures, 7815
Henry, Robert M., wind loads on vertically launched vehicles at various geographic locations and launch altitudes, 6444
Hens, *see* Poultry.
Henson, Fred L., advertising expenditures by corporations marketing food and kindred products, 624
Hentoff, Nat, inheritance comes to P.S. 83, 10425
Heolohichnyy zhurnal (periodical):
selections, 7603
Hepatitis:
chronic and epidemic, USSR studies, 9126
description, etc., 15281
Heptane, n-heptane vaporization in unstable combustor with traveling transverse oscillations, analysis, 9537
Heptanoic acid:
suspension of duty, continue—
law, 10083
reports, 8554, 10297
Her Growth, deceased Lower Brule Indian allottee, relief of heirs and devisees, 5630, 8451
Herald of Academy of Sciences, (USSR periodical):
articles, 2273, 9117
Herald of communications (USSR periodical), 3039
Herbicides:
aerial spraying of low-grade hardwood stands with 2,4,5-T, in West Virginia, 10569
controlling lawn weeds, 38
firebreak maintenance with soil sterilants, 14707
for control of saltcedar (Tamarix Spp.), results of field applications, 5265
granular, application to ornamental plant materials in nurseries, 14103
shrub seeding regeneration after controlled burning and herbicidal treatment, 2072
see also Diuron..
Hercules, F., orbital testing reuirements for guidance and control devices, 4812–13
Hereilea, isolation, from experimental space-flight diet, 11382
Hermann, F. J., western range forbs, 8142
Hermes, Walter G., truce tent and fighting front, 13668
Hernandez, Alfredo, relief, 11715, 15679, 15794
Hernandez, Guillermo N., jr., relief, 16016
Hernandez, Hector J. Sanchez, *see* Sanchez-Hernandez, Hector J.
Herr, Lester A., hydraulic charts for selection of highway culverts, 5132
Herrick, Owen W.:
geographic destination and market outlets for lumber produced by Kentucky sawmills, 5979
harvesting costs and returns on mechanized logging operation in southeast Kentucky, 5976
Herring, Harvey W., boron filaments, 4947
Herring fishery in southeastern Alaska, 749
Herring gulls:
bird vs. aircraft, 7439
ecology of pisciculture, southern coast of Aral Sea, USSR study, 4632
Hershkovitz, Philip, catalog of living whales, 7938
Hertz, Hans G., use of short arcs in orbit determination, 7819
Hervey, John G., Federal textbook on citizenship, our Constitution and Government, 6052
Hersig, H., uniform vacuum ultraviolet reflecting coatings on large surfaces, 7873
Herzog, Arthur, learn, baby, learn, 16236
Hess, Wilmot N., particles and fields research, bibliography with author index, 12291
Heterogeneous reactors, *see* Reactors (atomic).
Hetrick, David L., neutron dynamics and control, 12672
Heuristics:
and cybernetics, USSR study, 6122
man and machine, USSR study, 13458
Heuslnkveld, M., subsurface effects measurements, Project Pre-Schooner, 14237
HEW, *see* Health, Education, and Welfare Department.
Hewes, Donald E., man's walking and running gaits in earth and simulated lunar gravity, 12339
Heyamoto, Hiromu, sablefish found off mouth of Columbia River, 4409
Heyda, J. F., peak pressures in thick targets generated by reduced density projectiles, 16615
Heyl, A. V., regional structure of southeast Missouri and Illinois-Kentucky mineral districts, 6029
Hl, Cha Ml, *see* Cha Ml Hl.
Hi Sook Lee, *see* Lee Hi Sook.
Hibbard, Walter R., jr.:
nomination, hearing, 5815
remarks—
Jan. 18, 1966, 4754
Feb. 17, 1966, 6293
Mar. 1, 1966, 6311
May 9, 1966, 9366
Hibernation, cell proliferation kinetics in epithelia of dormice, 9859
Hickman, Kenneth, mechanism of Boule flotation on water and other liquids, 16375
Hicks, J. R., dissipation of warm fog by helicopter-induced air exchange over Thule AB, Greenland, 118
Hides and skins, *see* Leather, hides, and skins.
Hiemstra, Stephen J., talk, Nov. 17, 1965, 4291
Hiester, Nevin K., feasibility of standard evaluation procedures for ablating materials, 6331
Higbie, Kenneth B., review of metallurgical technology, 10932, 13699
Higgins, C. L., exhaust jet wake and thrust characteristics of nozzles designed for VTOL downwash suppression, 4828
Higgins, R. V., computer techniques for calculating shape factors and channel volumes from potentiometric model for use in waterflood performance calculations, 12239
High-energy ion beams used to accelerate hydrogen propellant along magnetic tube of flux, 16702
High flux beam reactor, *see* Reactors (atomic).
High-intensity flashing beacon powered by mercury cells, 1236
High Plains, *see* Southwest (U.S.).
High school students, *see* Students.
High schools:
arts and humanities instruction, financial assistance, 8843
book selection aids, 8836
cost of secondary school guidance services, 4297
dropouts—
important questions and answers about jobs, 9893
summer camp used in year-round training program, 16236
education act of 1965, first work of these times, description and analysis, 643
educationally deprived children—
basic facts for school administrators, programs under 1965 act, 1975
better schooling, programs under 1965 act, 640

High schools—Continued
enrollment, teachers, schoolhousing, and expenditures, fall 1965, statistics, 7307
entitlement by impacted area school districts under P.L. 874 and P.L. 89–10, 11826
football contests, protect from professional contests, reports, 16156, 17341
Gallaudet College, model secondary school for deaf to serve National Capital region, establishment, etc.—
hearings, 15966, 16194
reports, 17273, 17526
girls, future jobs, 11328
graduates, technical aids in science and engineering, examination announcement, 11501
grant formulas under 1965 school act, hearings, 4128
high school isn't enough (address), 8844
impact aid to strengthen and improve programs of assistance, hearings, 14417
PACE projects to advance creativity in education, supplementary centers and services—
programs under 1965 act, 639
project applicants manual, under 1965 act, 649
school construction grants, hearings, 5690
school library resources, textbooks and other instructional materials, programs under 1965 act, 641
secondary schools, operation by Federal agencies, investigation and study, report, 17298
Soviet, social science, syllabus of new course, 14564
speed and power of reading, 11881
strengthening State departments of education, programs under 1965 act, 642
see also Junior high schools—Secondary education—Students.
High seas, *see* Ocean.
High-temperature materials, *see* Refractory materials.
Higher education, *see* Colleges and universities.
Higher Education Board of District of Columbia, *see* District of Columbia.
Highland Rim, interpretation, 6034
Highlights of report of Surgeon General's Workshop on Prevention of Disability from Arthritis, 13957
Highway machinery, *see* Road machinery.
Highway safety, *see* Safety of life.
Highways, *see* Roads and highways.
Hile, Ralph, U.S. Federal research on fisheries and limnology in Great Lakes through 1964, 11978
Hilf, Jack W., rapid method of construction control for embankments of cohesive soil, 8009
Hill, Arthur, relief, 12805, 13099
Hill, Bea M., tips, remedial education for NYC enrollees, 12201
Hill, James E., review of mining technology 13700
Hill, John W., city halls and emergency operating centers, 3965
Hill, Stephen D., Knudsen effusion apparatus for vapor pressure measurements, 17858
Hill-Burton program:
aid for community hospitals, etc., facts for applicants, 13955
hospital and medical facilities series under Hill-Burton program, 1424, 5108, 6583, 7997, 11188–189, 12473, 13972–973, 15282–283, 16801
progress report, 2551
publications, bibliography, 5108
State plan data for hospitals and related medical facilities, national summary, 11189
2 decades of partnership for better patient care, 13973
2 decades of progress, 12473
Hill-Burton project register, 3041
Hilliard, Jack B., annotated reading list of Marine Corps history, 10893
Hilo, Hawaii, water spray protects logs, 10574
Hilsenrath, Joseph, OMNITAB, computer program for statistical and numerical analysis, 7911
HIM series, 8023–24, 9652, 12507–509, 15326
Himel, Chester M., new method for spray deposit assessment, 8965
Hines, Neal O., atoms, nature, and man, 11441
Hinges:
concealed hinge permits flush mounting of doors and hatches, 13771
device as hinge and electrical connector for circuit boards, 13794
Hinkle, Melvin E., mineral industry of Massachusets, 17844
Hinsen, Herbert G., floods on small streams in North Carolina, probable magnitude and frequency, 10637
Hiranaka, Setsuko, *see* Wilson, Setsuko.
Hirshhorn, Joseph H., Museum and Sculpture Garden, *see* Joseph H. Hirshhorn Museum and Sculpture Garden.
Hispanic Foundation, bibliographical series, 10892
Histograms, statistical data compression technique, 16680
Histology:
effects of profound hypothermia on spinal cord of dog, 80
Hungary, progress in past 20 years, translation, 12127
Historians, employment outlook, 13594
Historic American buildings survey, 13882
Historic sites:
landmarks, areas administered by National Park Service, 13876
preservation program—
hearings, 10329, 11814
reports, 13148, 13188, 15892
preserving historic America, 12037
publications, price list, 17994
Historical chart book, 16279
Historical review of trunkline suspensions and deletions at points served by local service carriers, 9080
Historical statistics H.S. series, 755–758
History:
American—
national defense education act, NDEA institutes for advance study, 5884A
publications, price list, 13952
general and Old World, Library of Congress classification, 7682
Pakistan, USSR study, 12154
philosophy, newly published, USSR critique, 9146
teachers, advanced study, national defense institutes, manual, 5877
teachnical analysis, use of electronic computer, USSR study, 7592
Ukraine, role in current history, 7610
why history, what is its use? 13282
see also Military history—Naval history—*also* names of departments, etc.—*also* subjects.
History and Geography, Pan American Institute of, *see* Pan American Institute of Geography and History.
History and Technology Museum:
contributions from, 5040, 9566, 12396
guide map, 16825
Hitting the hot spots, 15474
Hitz, Charles R., bottom trawling surveys of northeastern Gulf of Alaska, 4406
Hiwassee River:
economic and resource development, summary—
lower valley, 2608
upper valley, 2613
Ho, Erich, mineral industry of Sierre Leone, 1142

Hoag, Ralph L., National Technical Institute for the Deaf, 7497
Hobbs, S. Warren, geology of Coeur d'Alene district, Shoshone County, Idaho, 819
Hoc tap (periodical):
translations, 932, 2176, 4616, 6230, 9097, 9156, 10748, 12090, 12101, 12148, 12194, 14884
Hock, Raymond J.:
composition of black bear milk, 6799
heart rate of black bears in relation to age, 6798
Hocking County, Ohio, oil reservoir analysis and predicted recovery by waterflooding, Clinton sand, Logan oilfield, 1157
Hodge, Calif., accident, 2142
Hodges, Carl N., solar distillation utilizing multiple-effect humidification, 14770
Hodges, Earl F., supplement for 1965 to livestock-feed relationships, 1909–1964, 65
Hodgkin's disease, symptoms and treatment, 13967
Hoekstra, P., frost-heaving pressures, 3816
Hoertel, Frederick W., effect of certain process variables on vapor deposited tungsten, 6321
Hofer, Lawrence J. E.:
nature of carbides of iron, 13673
rates of adsorption of methane on seam coals, 9373
Hoffman, Anthony C., instrument system for determining temperature effects on maximum induction of magnetic materials, 15175
Hoffman, Charles A., study of dispersion-strengthened alloys, etc., 13831
Hoffmann, Kenneth J., wages and related benefits, metropolitan areas, 4718
Hofmann, Lee G., research on parameter tracking systems, 9425
Hog cholera, eradication, State-Federal cooperative program, 1965 progress report, 3735
Hogan, Earl H., and wife, relief, 5572, 5627
Hogs, *see* Swine.
Hoh Tribe, judment funds, disposition, reports, 12933, 17504
Hohl, Frank, electromagnetic torques on spherical earth satellites in rarefield partially ionized atmosphere, 6471
Holanda, Raymond, volume-ratio calibration system for vacuum gages, 1266
Holden, M. S., separated flows induced by shock wave-boundary layer interaction, 17875
Holdenried, Robert, viruses of laboratory rodents, 6486
Holders:
capillary tube wire holder, inspection of fine wires simplified, 13764
specimen holder design improves accuracy of X-ray powder analysis, 6401
Holding companies, act of 1935, releases, SEC, 3042
see also Banks and banking—Public utilities.
Holidays:
Federal, consideration, authorization, report, 4190
gift list for reader, 17991
Holidays and National Observances Commission, *see* National Observances and Holidays Commission.
Holland, Carl M., attenuation of sinusoidal perturbations superimposed on laminar flow of liquid in long line, 1265
Holland, Robert L., improved food handling facilities for San Juan, Puerto Rico, 46
Holleman, Euclid C.:
control experiences of X-15 pertinent to lifting entry, 4978
summary of high-altitude and entry flight control experience with X–15 airplane, 7893
Hollomon, J. Herbert:
addresses, etc.—
Sept. 27, 1965, 4027
Nov. 4, 1965, 4000
Dec. 6, 1965, 5548
Jan. 22, 1966, 4029
Feb. 25, 1966, 8427
May 2, 1966, 8426
May 9, 1966, 15659
June 2, 1966, 10033
June 10, 1966, 11512
July 11, 1966, 15658
Oct. 11, 1966, 17059
Holloway, Paul F.:
definition of lateral-range and lift-drag-ratio requirements for return to both optimum and nonoptimum recovery sites, definition, 11079
roughness effects on boundary-layer transition for blunt-leading-edge plates, 15149
Holmes, George H., Jr., water requirements and uses in Nevada mineral industries, 12234
Holmes, Jack A., speed and power of reading in high school, 11881
Holmes, Pinckney K., training needs for health facilities, 7328
Holowecky], Anna M., relief, 8536, 12814, 13108
Holstein cattle, *see* Cattle.
Holt, T. W., and Co., relief, 371
Holt, W. D., vortex valve for medium-temperature solid propellants, 7742
Holt Import and Export Co., *see* Holt, T. W. and Co.
Holt Lock and Dam, Warrior River, Ala., lock filling and emptying system, 1993
Holum, Kenneth, remarks, Dec. 4, 1965, 2113
Holyoke, Mass., commodity transportation survey, production area series, 8340
Hom Sheck See, and wife, relief, 13102
Home business, *see* Business.
Home care, *see* Medical care.
Home chicken flock, 43
Home economics:
consumer information, price list, 2519
education, planning functional facilities, 5880
family economics review, 2907
home and garden bulletins, 38–40, 3750–51, 5290–91, 6745–49, 9818–19, 11352, 12602–603, 14137–138, 15445, 16925
homemakers—
bread and cereal, golden nuggets, guide for program aides, 15458
broiler-fryers and turkeys, opinions and and preferences, 14141
chickens, opinions about (remarks), 1611
fruits and fruit products, use of and opinions, 15449
simplified housekeeping directions, job sheets, 5124
what food means to people, guide for program aides, 15457
wood and the homemaker, 2061
poor housekeeping breeds fires, 18133
program assistants—
handbook, 1600
helping parents teach young children, guide, 8162
to work with low income families, training, 62
publications—
list, 843
price list, 17992
research reports, 1586, 3752
Home economists:
employment outlook, 9242
examination announcement, 1757
extension, nutrition lessons, guide, 8159
Peace Corps, general information, 2507
Home loans, *see* Loans.

Home rule:
District of Columbia—
bills, comparison, 1852
hearings, print additional copies, reports, 560, 7192, 10210
legislation, staff synopsis, 1853
Homemaker service, *see* Visiting housekeepers.
Homemakers, *see* Home economics.
Homemaking, *see* Home economics.
Homer, Alaska, earthquake of Mar. 27, 1964, effects on area, 13410
Homes:
all-electric, annual bills, 4379
ant control, 6745
beautifying America begins at home, 15469
construction, maintenance, community development, publications, price list, 1408
employees in nursing, etc., homes for aged or chronically ill, 1964 statistics, 15310
fallout protection for homes with basements, handbook, 5510, 15623
farm plumbing system, 6743
FHA and home-buying serviceman, 698, 13319
FHA assistance for home trade-ins, consumer bulletin, Spanish edition, 8896
FHA financing for home purchases and home improvements, consumer bulletins, 5935, 14629
Spanish edition, 2017
FHA insured mortgages—
area trends, 4371, 10473
State trends, 4377, 10475
FHA quick guide for buying a home, 7366, 13322
home health agency manual, 12509
insured mortgage transactions, FHA trends, 2974
mortgage debt, estimated, quarterly 2889
mortgage insurance, FHA regulations, amendments, 4374
mortgage interest rates and terms, 3043
naturalization candidates, Federal textbook on citizenship, home study course for—
helper, 7502
student, 7503
one-family, sales, 1964 annual statistics, 1710
plumbing repairs, 16924
single-family, loan closing costs, 838
summer-home sites on national forest lands, follow-up review of adjustments made in fees charged, Forest Service, GAO report, 4497
unfinished but habitable, 839
utilization of food concentrates, USSR studies, 9129
Homestake-Sapin Partners, mining methods and costs at uranium mine, 4755
Hominy grits, domestic corn (hominy) grits bulletin, 2861
Homme, Vernon E., crystalline titanium by sodium reduction of titanium lower chlorides dissolved in sodium chloride, 16572
Homoceanu, Emil, relief, 8529
Homoptera, general catalogue, 9792, 12587, 16917
see also Scale insects.
Homotransplantation, *see* Transplantation (physiology).
Honda, Nishio, precooling of peripheral arterial blood in cold- and warm-adapted rabbits, 3782
Honduras:
investment guaranties, agreement, 15360
mineral industry, minerals yearbook chapter, 7688
Honduras pine, *see* Pine.
Honey:
cloth strainers for conditioning systems, 9835
crop, production, 1965 summary, 6657
Honey—Continued
greater wax moth, pest of honeycombs, control, etc., 1584
market news, semimonthly report, 3044
production, 15380
Honey bees, *see* Bees.
Honeycomb structures, *see* Laminated materials.
Hong Kong:
Foreign Service buildings program, report, 5637
refugee problems, report, 14389
trade in cotton textiles, agreement, 1503
Honnold, V. R., transistor design effects on radiation resistance, 15075
Honolulu, Hawaii, pledge of Honolulu, common commitment for defenders of South Vietnam, 6630
Honolulu Biological Laboratory, *see* Biological Laboratory, Honolulu.
Honolulu Iron Works, President's E award for export excellence (remarks), 12793
Honolulu Magnetic Observatory, magnetograms and hourly values, 5526
Honor, *see* Ethics.
Hooker, G. Vernon, Air Force scientific research bibliography, 3773
Hooks, fish, aluminum crimping sleeve prevents damage, 4405
Hoopa Valley Indians, unallotted lands, claims and judgment against U.S., 12883
Hoover, J. Edgar:
remarks, Oct. 19, 1965, 7358
statement, 13224
Hoover Dam, general information, 14006
Hopkins, Edward J., study of surface pitots for measuring turbulent skin friction at supersonic Mach numbers, adiabatic wall, 12355
Hopkins, Ralph L., synthesis of alkyl cycloalkyl and dicycloalkyl sulfides, 12252
Hopper, Natalie J., periodicals and serials received in Library of National Bureau of Standards, 12384
Hops:
foreign agriculture circulars, 2987
stocks, 8092, 16873
Horinbrook, E. M., top utilization of timber cut in California, 10575
Horizon:
day horizon of planet earth, brightness profile, USSR study, 16471
earth's optical observations from earth satellite, deriving earth-centered datum, 7880
Hormones:
and restorative processes, Soviet book, introduction, 10759
human growth hormone, 2457
Horn, Arthur G., Lake States pulpwood production hampered by adverse weather and labor shortage, 14702
Horn, Helmut J., application of iterative guidance mode to lunar landing, 1246
Horn flies, *see* Flies.
Hornbeck, Bernice M., cotton and manmade fibers competition in Japan, 13355
Horne, John E.:
speeches—
Feb. 21, 1966, 5933
July 30, 1966, 13318
Horses:
light, breeds, how to select, etc., 34
saddle, barn, farm building plan, 15454
Horseshoe Bend National Military Park, general information, 9573
Horticultural Crops Research Branch, publications, reference list, 8138
Horton, James A., agricultural marketing, 2648
Horvitz, D. G., computer simulation to hospitals discharges, 5120

Hose:
Federal item identification guides for supply cataloging, supplements, 2935
tetrafluorethylene, high temperature, medium pressure, classification of defects, military standard, 11851
Hosey, Andrew D., industrial environment, its evaluation and control, syllabus, laboratory manual, 16802
Hoshizaki, Chizuyo, relief, 5575, 5739
Hoshizaki, H.:
convective and radiative heat transfer during superorbital entry, 16600
radiant energy transfer measurements in air, 16601
Hosiery:
industry—
1947–64, indexes of output per man-hour, 14968
wage survey, 1090
lengths and sizes, excluding women's, standard of trade, 12381
Hospital administrators:
employment outlook, 9244
residents in hospital administration, examination announcement, 3987
Hospital and Medical Facilities Division, publications, bibliography, 5108
Hospital attendants, employment outlook, 9270
Hospital Corps, Navy:
handbooks, 2312, 3032.
change, 4749
Hospital corpsmen, Navy training course, 13906
Hospital insurance, *see* Hospitalization insurance
Hospital Insurance Trust Fund, Federal, Board of Trustees, *see* Board of Trustees of Federal Hospital Insurance Trust Fund.
Hospitalization, *see* Hospitals—Military hospitals—Veterans hospitals.
Hospitalization insurance:
aged persons—
conditions for participation of hospitals, 5142
social security amendments of 1965—
annotated text of health insurance provisions, 5792
law, print additional copies, report, 13003
Senate amendments, brief description, 1937
summary, 7209
benefits under medicare, 16830
good news for household workers, 15328
medicare health benefits can help you, if you are 65, 16831
reimbursement guidelines for medicare, hearing, 11802
things to know about medicare, 6608
under social security, medicare handbook, health insurance, 11229
what you need to know about medicare, 9659
Hospitalmen, *see* Hospital corpsmen.
Hospitals:
central medical and surgical supply services, 1424
administrative aspects, 15282
community facts for Hill-Burton applicants, 13955
community general, as mental health resource bibliography, 13986
conditions of participation in health insurance for aged program, 5142, 15326
conference Hill-Burton and mental retardation construction authorities with Surgeon General, 1965, proceedings, 15283
construction program, agreement with Burma, 15370
data from discharge survey, 18081
Hospitals—Continued
decade of change in U.S. hospitals, 1953–63, study comparing utilization, staffing and cost trends in civilian and CONUS Army hospitals, 140
design features affecting maintenance of asepsis, 7997
diagnostic and demographic data of patients discharged from Public Health Service hospitals, 1416
dietary services, planning guide, 13972
discharges, computer simulation, 5120
environment makes the difference, 16801
fire prevention, 11188
general admittance of psychiatric patients, survey, 15303
hospital and medical facilities—
Hill-Burton program—
progress report, July 1, 1947–June 30, 1965, 2531
projects approved for Federal aid, register, 3041
series, 1424, 5108, 6583, 7997, 11188–189, 12473, 13972–973, 15282–283, 16801
State plan data, national summary, 11189
2 decades of partnership for better patient care, 13973
Navy design manual, changes, 1569
series, facilities for mentally retarded, 16800
hospital and university-affiliated facilities for mentally retarded, construction grants, 7992
hospital discharges and length of stay, short-stay hospitals, United States, July 1963–June 1964, 14001
hospitalization in last year of life, United States, 1961, episodes and duration, 16812
inpatient and outpatient workloads of facilities, Division of Hospitals, PHS, statistical summaries, 1417, 18002
management of central rayon hospital in USSR, 7586
medicare program, billing for services, manual, 12508
military medical benefits act of 1966—
hearings, 13195
reports, 7105, 8612, 16091
nuclear disaster, planning, 1422
oblast, organization of work, USSR study, 908
packaged disaster hospital—
establishing, 13970
pharmacy section, 18007
readiness plan, check list, 13971
patients discharged from short stay hospitals, statistics, 18081
psychiatric and tuberculosis, questions and answers, 8026
Public Health Service—
closing, proposal, report, 478
grants, etc. for construction, 1965 funds, 6491
medical internships, 18060
narcotic addicts, treatment, rehabilitation, research, 9028
pharmacy residencies, 16807
seamen's hospitalization, subcommittee report, 1935
radioisotope facilities in general hospital, 6583
research, education, and consultation comprise patient's environment, 16801
sharing technology and equipment with VA hospitals, report, 10128
technological change, 4332, 7328
tuberculosis beds, index, 13998
see also Mental institutions—Military hospitals—Veterans hospitals—*also* names of hospitals or places where located.
Host (biology):
factors involved in host-agent relationships, symposium, 9780

Hot gas ignition temperatures of hydrocarbon fuel vapor-air mixtures, 17866
Hot laboratories, *see* Radiation laboratories.
Hot Springs National Park:
  climatic summaries of resort areas, 11900
  general information, 11127
Hot tips on food protection, 9626
Hotels:
  census of business, 1963, selected services, 6885
  meat purveyors, improved methods and facilities for custom service houses, 12608
  occupations, employment outlook, 9303
Houbolt, John C., communication probabilities for orderly-spaced satellites, 1187
Houck, Ariz., railroad accident, 2140
Houghton, Frank E., Red River, N. Mex., climatic summaries, 10447
Houghton, J. R., voltage ratio detector for millivolt signals, 2454
Hours of labor:
  current reporting in developing countries, how to establish, 12209
  employment and earnings (periodical), 2881
  factory workers, earnings and weekly hours, 4736
  fair labor standards act—
    application to forestry or logging operations, 11312
    construction industry, coverage, 9761
    general coverage, provisions, 11310
    handy reference guide, 16897, 18140
    hours worked, 11311
    motor carrier employees—
      exemption from maximum hours, code of Federal regulations, 6694
      extending overtime provisions, 5222
    overtime compensation, 16899
    overtime pay, computing, highlights, 6693
  Federal civilian firefighters, premium compensation, correction of inequities—
    hearing, 17595
    report, 12944
  Government officials and employees—
    FPM manual supplement, 2951
    travel time compensation, hearings, 5704
    variation of 40-hour workweek for educational purposes—
      hearing, 11679
      law, 15703
      report, 11624
  labor force monthly report, 3218
  maximum retail trade, study, 5224
  nursing homes etc., overtime protection, study, 5223
  output per man-hour, industry indexes, 4717
  railroad employees, 16-hour limitation for certain employees, hearings, 15976
  retail trade, June 1965—
    apparel and accessory stores, 13614
    automotive dealers and gasoline service stations, 13613
    building materials, hardware, and farm equipment dealers, 13611
    employee earnings, summary release, 14984
    food stores, 13612
    furniture, home furnishings and house appliance stores, 13615
    miscellaneous retail stores, drug stores and proprietary stores, 13616
  savings by reducing overtime and maintenance on revetment construction on lower Mississippi River, Engineers Corps, GAO report, 8986
  shorter workweek, selected references, 12199
  union—
    building trades, 13609
    local-transit operating employees, 9333
    motortruck drivers and helpers, 13610
    printing industry, 12216
Hours of labor—Continued
  women, hours limitation law, administrative and technical problems (remarks), 17990
Housatonic River, water resource appraisals for hydroelectric licensing of basin, planning status report, 4384
House Administration Committee, House:
  calendar, 3118
  committee prints, 7150, 14426
  funds, providing, reports, 17248, 17250
  hearings, 515–516, 11660
  hearings, etc., authorize, report, 17300
  reports, 492–494, 499–500–502, 4102–10, 5640–47, 7091, 8575–77, 10173, 10186–217, 12925–926, 12928, 12998–13007, 17195, 17209, 17213, 17233–234, 17248, 17250–252, 17259, 17264, 17277–280, 17296, 17343
House documents, 456–470, 1794–1801, 4045–73, 5587–5624, 7052–71, 8487–8509, 10096–105, 11597–615, 12848–861, 14379–387, 15779A–787, 17155–173
House files, *see* Files.
House of Representatives:
  appropriations, 1967—
    budget amendments, 8502
    hearings, 11641
    law, 15727
    reports, 10224, 13168, 14395
  calendars and history of legislation, 3110
  candidates, campaign expenditures, special committee to investigate, report, 12994
  contested elections—
    Mississippi, hearings, 516
    Peterson *vs.* Gross, hearing, 515
  delegation to conference of NATO parliamentarians, New York City, 1965, report, 15848
  delegations to conferences of Mexico-United States Interparliamentary Group, reports, 1859, 11654
  disbursements, detailed statements, 7150, 14426
  Doorkeeper, compensation, equalize, report, 17233
  employ additional Capitol police, report, 12926
  journal, 89th Cong., 1st sess., 8486
  Members—
    additional clerk, report, 10173
    four-year terms—
      hearings, 8672
      message from the President, 4068
    office equipment furnished, remove certain limitations, law, 442
    stationery allowance, additional, report, 17251
    telephone, telegraph and radio-telegraph service allowances, additional, report, 12928
  prayers offered by Chaplain, 89th Congress, 15780
    print as H. doc., report, 10192
  Publications Distribution Service employees, additional compensation, reports, 7091, 17343
  Rayburn Building, Carl Vinson Room, dedication ceremony, print as House document, report, 502
  telephone directory, Jan. 1966, 4044
  transfer of funds from contingent fund to meet committee employee payroll, report, 12925
House reports:
  private bills, 471–476, 1802–19, 4074–80, 5625–32, 7072–77, 8510–41, 10106–117, 11616, 12862–904, 15788–835, 17174–193
  public bills, 477–506, 1820–44, 4081–4116, 5633–79, 7078–7105, 8542–8644, 10118–225, 11617–634, 12905–13008, 14388–402, 15836–950, 17194–353
Household appliances:
  census of manufactures, 1963, industry statistics, 8337

Household appliances—Continued
consumer information, price list, 2519
Federal item identification guides for supply cataloging, supplements, 2939
free world production and trade, 1961–63 totals, 4004
selling and servicing, bibliography, 12503
Household employees, *see* Servants.
Household employer's social security tax guide, 855
Household goods:
and commercial furnishings and appliances, Federal item identification guides for supply cataloging, supplements, 2939
brought into U.S. under Gov't. orders, permanent exemption from duty—
law, 10087
reports, 8561, 10302
consumer buying intentions, 268, 5496, 11474, 14278
electric housewares, current industrial reports, 251
Federal employees assigned to isolated duty stations, moving and storage expenses, reimburse—
law, 15706
reports, 503, 8548, 13143
imported, civilian and military personnel, customs requirements, 16205
Navy personnel, moving information, 11155A
retail trade, employee earnings, home furnishings, and equipment stores, 13615
shipments overseas, charges for diversion in continental U.S., GAO review, 14734
storage, erroneous payments to members of Army, report, 12954
see also Furniture.
Household workers, *see* Servants.
Households:
and family characteristics, 17007
by type, 1965, population characteristics, 14270
insecticides, guide, 9814
private, employment, expanding opportunity, 4326
sample survey, Atlantida case study—
content and design of household surveys, 3938
field operations, organization, training and control, 17012
population data controls, 6937
sample design, 15596
survey objectives and description of country, 3937
with telephones, Mar. 1965, population characteristics, 3925
with television sets in U.S., current housing reports, 3919
Housekeeping, *see* Home economics.
Houser, Leroy S., sanitation of shellfish growing areas, 5112
Houses:
can resist hurricanes, 4461
Federal Housing Administration owned, savings through use as quarters for Coast Guard members, Miami and St. Petersburg, Fla., areas, GAO report, 2085
flooded, first aid, 3743
low-cost construction, framing system, 15452
radiation measurements in typical residential structures, 15527
single family, inspected by FHA, wood products used, 6779
Vice President, official residence—
hearings, 5706
law, 8462
reports, 553, 5677, 7088
wood-frame, improved system of construction, development, 5993
see also Farmhouses.
Housewares, *see* Household goods.
Housing:
act of 1949, urban renewal programs authorized by act, operations report, 3469
act of 1950, amend, message from the President, 8505
acts, compilation, 4042
Alaska natives, studies, 5104
authorized, construction reports, 2784, 12704–705
summary statistics, 2785, 14263
census, 1960—
availability of published and unpublished data, 8370
procedural history, 11460
census 1970, self-enumeration as method, 12731
census publications price list, 5101
code of Federal regulations, 10491
community, available, need for current evaluation prior to construction of military housing, Navy Dept., GAO report, 808
construction—
1889–1964, statistics, 14280
tight credit problem examined by Government (speech), 13318
consumer buying intentions, 268, 5496, 11474, 14278
current reports, 2816
announcement and order form, 8324
housing characteristics, 3919, 14269
housing vacancies, 245, 11462
dealers and individuals subject to certain sections of title 1, National housing act, list, 5934
demonstration cities and metropolitan development act of 1966, reports, 13186, 15897, 17241, 17336
discrimination in sale, etc., eliminate—
hearings, 11671, 14493
message from the President, 8509
report, 12929
displaced persons, relocation assistance, report, 13155
elderly people—
FHA housing for the elderly, projects and people, 11924
project, Fort Worth, Tex., mortgage insurance, GAO report, 6021
project, Houston, Tex., mortgage insurance, GAO report, 6022
senior citizens, selected references, 5263
emergency lodging, 12741
family, Navy design manual, changes, 1569
farm labor, loans and grants, 12611
Government-owned, family, management and utilization, Army Dept., GAO review, 7474
housing and planning references (periodical), 3047
housing and urban development act of 1965—
Federal grant assistance for water & sewer systems, 4541, 6049
law with related documents, texts, 510
housing and urban development act of 1966—
hearings, 8659
reports, 13188, 14388, 17202
summary of bills, 8664
summary of House bill, 13023
insurable loans, digest, 7364
laws, compilation, 1847
legislation for 1966, proposals, hearings, 10329
living units, minimum property standards, 2018
interim revision, 14632
loan default, VA savings through canceling hazard insurance, GAO report, 13383
loans, defaulted, collection efforts of VA, GAO report, 4504
low-rent, PHA bulletin, 6590
mid-decade census, take in 1966 and 1975, etc., report, 481

Housing—Continued
military, family housing program, appropriations, 1967, reports, 15908, 17311, 17513
multifamily, minimum property standards, 699
national housing act:
amend—
law, 17100
reports, 15846, 17217, 17464
uniform system of accounts for cooperative housing projects, insured, 2019
Panama, U.S. programs, observations report, 15968
public—
bonds or notes issued by local urban renewal or public housing agencies are incontestable in hands of bearer, opinion of Attorney General, 6248
community facilites and programs serving, 9636
low rent—
inclusion of balconies and use of high-cost brick in constructing projects, Public Housing Administration, GAO report, 6010
local authorities participating in PHA programs, 3161
public and private, study, authorization, reports, 4162, 4177
racial equality in housing, legal and moral basis (remarks), 16886
rent supplement assistance, FHA regulations, 16273
rental and cooperative, for families of low and moderate income, FHA mortgage insurance, consumer bulletins, 4372, 11916
sales, construction reports, 1710, 2787
savings and home financing, source book, 1965 data, 11915
site engineering, design notes, 6590
starts, construction reports, 2788
statistics, monthly, 3048
urban land, more efficient use (remarks), 12492
urban renewal directory, 3652
vacant units in U.S., 245, 11462, 14269
Washington, D.C., problems, synopsis of findings, 15212
see also Barracks and quarters—*also* names of States, etc.
Housing and Home Finance Agency:
appropriations, 1966, public works, law, 401
press releases, 3375
weekly news summary of releases issued, 3046
Housing and Urban Development Department:
appropriations, 1966, supplemental proposal, 5608
appropriations, 1967—
hearings, 8651, 13193
law, 15734
reports, 8638, 14401, 16090
Assistant Secretary, nomination of—
Brownstein, Philip N., hearing, 5801
Haar, Charles M., hearing, 5801
Hummel, Don, Hearing, 10330
Taylor, H. Ralph, hearing, 10330
career employment, 7500
certain documents executed by personnel, valid and effective, opinion of Attorney General, 9192
HUD program guide (series), 6048
international programs, 840
press releases, 3376
programs—
general information, 10659
public works planning, etc., 841
Secretary, nomination of Robert C. Weaver, hearing, 4212
Housing and Urban Development Department—Continued
Under Secretary, nomination of Robert C. Wood, hearing, 4212
water and sewer facilities grant program, information series, 6049
Housing insurance, *see* Mortgage insurance.
Houston, Billy J., nonmetallic waterstops, water retentivity, etc., of splices, 4342
Houston, David R., strumella canker of oaks, 16322
Houston, Sam, Fort, *see* Sam Houston, Fort.
Houston, Walter R., effects of stocking rates on range vegetation and beef cattle production in northern Great Plains, 3772
Houston, Tex.:
area wage survey, metropolitan area, 16533
commodity transportation survey, production area series, 8346
housing project for elderly FHA approval of mortgage insurance, GAO report, 6022
principal electric facilities, map (series), 7379
Hovenweep National Monument, general information, 9574
Hovering, maneuvers over lunar surface, fixed-base visual-simulation study, 17919
How Employment Service helps the handicapped, 16248
How extension spends its time and with whom, 14626
How foreign policy is made, erratum, 2577
How much is she worth?, 15463
How to use USDA grades in buying food, 16936
Howard, James C., frequency independent techniques for extracting rigid-body motion from total motion of large flexible launch vehicle, 1272
Howard, Jed L., current United States Air Force policy on glaucoma, 6812
Howe, Fisher, computer and foreign affairs, 18114
Howe, Harold, II:
addresses—
Mar. 18, 1966, 7318
Mar. 28, 1966, 7315
Apr. 2, 1966, 7326, 13281
Apr. 4, 1966, 7323
Apr. 6, 1966, 7324
Apr. 13, 1966, 7314
Apr. 16, 1966, 7317
Apr. 24, 1966, 16238
May 3, 1966, 10422
May 13, 1966, 16228
nomination, hearing, 5821
Howe, John T., dynamics of capillaries and existence of plasma flow in pericapillary lymph space, 15146
Howell, John R.:
analysis of effect of seeded propellant layer on thermal radiation in nozzle of gaseous-core nuclear propulsion system, 2415
radiative interactions between absorbing-emitting and flowing media with internal energy generation, 15197
Hower, Edwin F., relief, 5727, 7025
Howes, Merwin H.:
methods and costs of constructing underground facility of NORAD Combat Operations Center, Cheyenne Mountain, etc., 13679
mineral industry of Utah, 1147
Howitzers, rigging for airdrop, 8267
Hoy, Fun Wat, relief, 13114
Hoyle, Merrill C.:
addition of phosphorus to subsoil promotes root development of yellow birch, 8958
growth of yellow birch in podzol soil, 800
Hoyt, Charles D., mineral industry of Sweden, 9365

Hoyt, Mildred I., publications of Pacific Northwest Forest and Range Experiment Station, 5973
HQM series, 17612
H-response in electroencephalograms of aircrew personnel, 3799
Hruby, Ronald J., FM telemetry, etc., for wind tunnel aerodynamic measurements, 6462
Hsia, Tao-tai, church and state under Communism, Communist China, 7220
Hsingan, *see* Khingan, Inner Republic Autonomous Region, Manchuria, China.
Hu, W. C. L., flexural vibrations of conical shells with free edges, 6335
Huber, R. W., fracture-toughness tests for titanium alloy plate and forgings, 1355
HUD, *see* Housing and Urban Development Department.
Huddle, John W., geology and coal reserves of Kermit and Varney area, Ky., 9019
Huddleston, Barbara, market for U.S. products in East Africa, 12059
Hudelson, John C., dynamic instability of undamped bellows face seals in cryogenic liquid, 4944
Hudgins, Robert, proceedings against, report, 4096
Hudson, C. Michael, fatigue-crack propagations, etc., of stainless steel, 2433
Hudson, R. G., diffusion and electron emission properties of duplex refractory metal thermionic emitters, 15044
Hudson, Wayne R., copper magnetoresistance devices as magnetometers, 13839
Hudson Bay:
  sailing directions, 11140–41
  surface water quality, 10652, 14756
    records to Dec. 31, 1963, index, 2098
Hudson Highlands National Scenic Riverway, establish, hearings, 517
Hudson River and Valley:
  focus on the Hudson, evaluation of proposals and alternatives, 17900
  interstate compact relating to resources—
    law, 15772
    reports, 15893, 17490
  mid-Hudson rural development project, 14596
Huerfano County, Colo., ground water, 7490
Huertado, Felix P., *see* Hurtado, Felix P.
Huff, Judith M., recreation facilities and services operated by FHA borrowers, 14541
Huff, Lyman C., mineral resources of Sycamore Canyon, primitive area, Ariz., 14747
Huff, William R., flow properties of powdered coal-water slurries, 2352
Huggett, Clayton, effects of 100% oxygen on ignitibility and combustibility of materials, 3797
Hughes, Eugene P., results of field applications of herbicides for control of saltcedar (Tamarix Spp.), 5265
Hughes, Kathryne S., how to use telephone, 9030
Hughes, L. E., industrial services for nursing home industry, 4332, 7328
Hughes, Patrick, keeping tornado watch, 7004
Hulls (ships):
  effects of cavitation on magnitude of intermittent forces transferred by screw propeller as it operates, USSR study, 2216
  periodic forces acting on, during operation of shrouded propeller, USSR study, 1012
  salvage and repair, Army technical manual, 15520
Hulse, Fred E., pooling by Florida citrus cooperatives following 1962 freeze, 14142
Hultquist, A. E., electrolytic preparation of high dielectric thin films, 4821
Human centrifuges, *see* Centrifuges.
Human embryology, *see* Embryology.
Human engineering:
  Army's human factors research and development activities, 5376
  human vs filter as data extrapolator in 2-coordinate, sampled-data tracking system, 6543
Human environmental sensitivity to vibrotactile stimulation, etc., 3784
Human factors:
  considerations of undergrounds in insurgencies, 16961
  in general aviation accidents, 16984
  research in command information processing systems, 16967
Human factors in engineering design, *see* Human engineering.
Human race, *see* Man.
Human relations:
  how to turn talk into action, guide for effective commission on human relations, 10049
  international meetings, world list, 3717
Human resources, *see* Ability.
Human response to sustained acceleration, 10978
Human rights, *see* Civil rights.
Human Rights Committee, *see* United States Committee on Human Rights.
Human Rights Year, International, *see* International Human Rights Year.
Human transfer functions in multi-axis and multi-loop control systems, 9512
Human transfer functions used to predict system performance parameters, 15109
Human vs filter as data extrapolator in 2-coordinate sampled-data tracking system, 6543
Humanities:
  Latin Americanists, specialists, biobibliographies, national directory, 10892
  public elementary and secondary schools, instruction, financial assistance, 8843
  science, humanities, and Federal Government, partners in progress (remarks), 8305
Humboldt River and Valley:
  water in valley near Winnemucca, Nev., 9023
  water resources, 2106
Hume, Ivor N.:
  excavations at—
    Clay Bank in Gloucester County, Va., 5040
    Tutter's Neck in James City County, Va., 12397
Humes, Donald H., influence of bumper and main wall material on effectiveness of single meteoroid bumpers, 1269
Humes, Glenn D., relief, 12868
Humidity:
  air, nighttime drying in Santa Ana Mountains, 2068
  evaporation study in humid region, Lake Michie, N.C., 16359
  mean relative humidity (%), monthly and annual, maps, 5895
  multiple-effect humidification utilized by solar distillation process, 14770
Hummel, Don, nomination, hearing, 10330
Humphrey, Hubert H.:
  American civilians who are fighting shirtsleeves war in Vietnam, 17745
  remarks—
    July 27, 1965, 1970
    Nov. 4, 1965, 13996
    June 13, 1966, 17733
Humphrey, Judith M., index-catalogue of medical and veterinary zoology, 5274, 6715, 8133–34, 9793, 16918
Humphrey, Richard A., precision winding of cylindrical composites with shaped glass filaments, 15038
Hung-ch'i (periodical):
  translations, 3588
Hungarian Chemical Society, general assembly, 1966 report, 14933

Hungarian Microbiological Society:
congress proceedings, 1059
general assembly, 16490
program, 2225
Hungarian science (periodical):
translations, 9164
Hungary:
Academy of Sciences—
academic awards and degrees, directive, 16481
activities of corporate bodies, 14835
activities of corporate organs, 13576
activities of organs of new Hungarian doctors and candidates of sciences, 9138
activities, organizational changes, 2194
awards, 6169
corporate organs after 1965 general assembly, 6208
Mathematics and Physics Department, report of departmental leadership, 9169
recent activities, 14859
reform of economic guidance system debates, 13577
regulation of research sites receiving support, 4606
Research Institute of Experimental Medicine, 10764
Technical Sciences Department 1949–64, report, 10707
status of research under its guidance, activities, 9081
algae studies, 4673
Aluminum Industry Planning Institute, organization, development and tasks, 2185
anatomy and histology, progress in past 20 years, translation, 12127
applied mathematics and scientific research, 2260
automation research, 10708
automation, views, 888
background notes, 1483
biological research, development, 14834
biological sciences, development, 14845
chemical research, various aspects, 4670
church and state under Communism, 7219
colleges and universities, development of chair of physiology over past 20 years, 10779
Czechoslovakia boundary, study, 11257
doctors and candidates, 6112, 9083, 14836
genetics, current questions, colloquium, 9082
geodesy and cartography, conditions, problems and plans, 16487
geodetic instruments, application, 14956
geodetics and cartography achievements, 12176
geological research, decree on supervision and implementation, 2188
Hungarian observation network for artificial satellites, activities, 14833
Isotope Institute of National Atomic Energy Committee, activities, 13557
labor conditions, 13634
medical sciences, qualifications asked by professional committees, study, 9114
medical training, problems, 10763
medicine, 1945–65, summary report, 10762
microbial genetics conference, 6172
mineral industry, minerals yearbook chapter, 2326
Minister of Public Health, control of radiation dosage received by workers, decree, 4610
National Institute of Public Health, jubilee session, 2238
petrochemistry conference, 1965, reports presented, 10730
professional literature, twenty years struggle against contagious animal disease, 13497
Hungary—Continued
provincial press, translations, 3559
research sites, scientific work, statistics, 7580
scientific events, schedule, 906
scientific events slated in 1966, 4677
scientific research, problems of organizing, 13575
scientists—
molecular studies at Moscow State University report, 12105
nuclear chemistry studies at Warsaw University, report, 12104
visits and describes Soviet pharmaceutical and chemical research institutions, USSR study, 9102
visits Soviet institutions of organic chemistry, study trip, 9105
visits various countries, 13556
security and intelligence service, statement of Laszlo Szabo, hearings, 7119
society of Hungarian chemists work plan and news, 10740
technical chemical research, 9186
Technical Chemistry Research Institute, 5th anniversary, 9186
Telecommunications Research Institute, scientific meeting on 50th anniversary, 7578
veterinary internal medicine development, 12141
veterinary parasitology, 999
Hunger:
balance agricultural productivity and population to prevent famine (address), 14129
dimensions of world hunger problem (address), 14120
hope for hungry nations (address), 8753
India, relieve victims, U.S. participation—
hearings, 8762, 11636
law, 11549
message from the President, 8499
reports, 8594, 8737
magnitude of impending food crisis (speech), 14160
winning the war on hunger through agricultural development (address), 11345
world war on hunger, program for foreign aid—
hearings, 7107, 8645, 11785
print additional copies, reports, 17278, 17544
staff summary of testimony, 7110
message from the President, 4072
Hunt, Charles B.:
Death Valley, Calif.—
hydrologic basin, 7485
plant ecology, 7487
stratigraphy and structure, 7484
Hunt, Eleanor P.:
health, education, and welfare trends, data and rankings, 16365
mortality of white and nonwhite infants in major U.S. cities, 4536
recent demographic trends and their effects on maternal and child health needs and services, 11484
Hunt, Robert E., theological roots for hospital ministry, 16895
Hunt, V., induction processed separable tubular brazed connector, 12273
Hunter, Elmer C., economies of size for specialized beef feedlots in Colorado, 10411
Hunter, H. Foster, relief, 15808
Hunter, Willard L.:
carbon reduction of chromite, 9377
electric-arc furnace reduction of tin slag for production of columbium-tantalum-bearing alloys, 7707
Hunting:
migratory birds, Alaska, 1966–67, Federal regulations governing, 14673
national survey, 16312

Hunting—Continued
sports, classification, Library of Congress, 1100
teal, Sept. 1965, experimental season, 10540
Huntley, Sidney C.:
simulated nuclear heating of liquid hydrogen in propellant tank, 6467
wall and bottom heating of liquid hydrogen in propellant tank, 6439
Hurd, Edgar B., costs and returns, 1965, commercial wheat farms, Pacific Northwest, northern and southern Plains, 14530
Hurewicz theorem, *see* Equations.
Hurley, Ray, remarks, Nov. 9, 1965, 3941
Huron, Lake, small craft, gale and whole gale warning facilities chart, 15423
Hurricanes:
Atlantic, TIROS coverage of 1963 season, 12335
Betsy—
Aug. 27–Sept. 10, 1965, Federal action in disaster, 7327
disaster of Sept. 1965, investigation of destruction—
hearings, 528
subcommittee report, 10265
houses can resist, 4461
model plan for coastal community, 14075
Southeast hurricane disaster relief act of 1965—
hearing, 527
law, 439
report, 554
surveys, engineers reports—
coastal beaches, South Carolina—
departmental edition, 10436
document edition, 10102
Florida northwest coast—
departmental edition, 14572
document edition, 14384
Folly Beach, S.C.—
departmental edition, 668
document edition, 465
Isle of Palms, Sullivans Island, and Charleston, S.C.—
departmental edition, 8859
document edition, 8501
Narragansett Bay area, R.I. and Mass.—
departmental edition, 11893
document edition, 11613
New Hampshire coastal and tidal areas—
departmental edition, 669
document edition, 463
North Carolina, mainland areas, excluding Washington and New Bern—
departmental edition, 17631
document edition, 17165
Outer Banks between Virginia State Line and Hatteras Inlet, N.C.—
departmental edition, 17635
document edition, 17166
Washington, N.C., and vicinity—
departmental edition, 10438
document edition, 10104
see also Typhoons.
Hurtado, Felix P., relief, 11703, 15676
Husband and wife, *see* Pensions.
Huseonica, William F., current measurement in launch vehicle measurement, 16665
Huske, William O., Lock and Dam, *see* William O. Huske Lock and Dam.
Huston, Robert J., handling qualities of rudimentary hingeless rotor helicopter, 11053
Hutchinson, R. L., basis for rigid pavement design for military airfields, 11894
Hutchison, S. Blair, timber management issues on Utah's north slope, 14712
Hutchital, D. A., transport phenomena in ionized gases as initial value problem, 15062
Hutton, Robert F., simulation technique for making management decisions in dairy farming, 5864
Huval, Carl J., flow in chute spillway at Fort Randall Dam, 10443
Hybridization theory, methodological aspect, USSR study, 1070
Hydrates:
beryllium sulfate, heats of formation, 6316
calcium aluminoferrite, properties, 11088
crystal method for desalting of water, USSR study, 2202
see also Chloral hydrates.
Hydration, lower body negative pressure influence during bedrest, 9863
see also Heat of hydration.
Hydraulic brakes, *see* Brakes.
Hydraulic cylinders, *see* Cylinders.
Hydraulic engineering, circular, 5132
see also Locks (hydraulic engineering).
Hydraulic mine filling, cement and dispersant additives, effect backfill, laboratory study, 16576
Hydraulic mining, *see* Coal mines and mining.
Hydraulic systems, drive prevents backlash, 1226
Hydraulic transport of coal, 7712
Hydraulic turbines, *see* Turbines.
Hydraulics:
analysis of circular pipe culverts, electronic computer program, 5125
box-inlet drop spillway design, 8143
charts for selection of highway culverts, 5132
computations of tidal flow, errata, 8860
diffusivity of wedge-shaped aquifers drained by streams, 13408
downpull forces on large gates, 18088
flow frequency analysis, methods, 17736
laboratory investigation, Hilo Harbor, Hawaii, pneumatic wave generators, approximate theories, 10442
model investigations—
Bessie Cutoff, Mississippi River, 678
Bonneville Dam, navigation channel, improvement, 11890
Cannelton Locks and Dam, Ohio River, spillway, 5889
Cannelton main lock, 7336
Cayuga Inlet, Cayuga Lake, N.Y., drop structure, 5888
Cochiti Dam, Rio Grande, N. Mex., 4338
Cordell Hull Navigation Lock, filling and emptying systems, 16251
Dana Point Harbor, Calif., 13295, 14575
Hannibal Locks and Dam, spillway, 13297
Holt Lock and Dam, filling and emptying system, 1993
low-head navigation dam, Arkansas River, Ark., spillway, gate sills and stilling basins, 1991
Matagorda Ship Channel, 7335
Millers Ferry and Jones Bluff Locks filling and emptying systems, 10444
Monongahela River, lock and dam no. 4, navigation conditions, 16250
Nassau Harbor, 679, 1992
Navy ship mooring facility, west coast of Point Loma, Calif., 5887
seawall, Texas City, Tex., stability, 11898
Shelbyville Dam, Kaskaski River, Ill., spillway, etc., 11897
submerged rock weirs, St. Clair River, adequacy to withstand propeller wash, 11896
Walnut Creek project, Calif., drop structures, 13296
O-ring tube fittings form leakproof seal in hydraulic systems, 4857
physiographic and hydraulic studies of rivers (series), 2103, 6031, 12021, 17718
prototype tests—
flow in chute spillway at Fort Randall Dam, 10443
Greenup Lock, Ohio River, Ky., culvert pressures, 16249

Hydraulics—Continued
research in United States, 17939
resistance to flow in alluvial channels, 17718
river hydraulics (series), 6043, 17731
rock riprap, design, 10439
Hydrazine:
acute toxicity in mice, biochemical studies, 12630
effect on protein content of various tissues in rat, 8202
effects on blood glucose and muscle and liver glycogen in anesthetized dog, 9864
Hydroacoustics, *see* Sound.
Hydrobiologists, Soviet, training, 17772
Hydrobiology, *see* Marine biology.
Hydrocarbons:
analytical techniques for hydrocarbons in mineral aggregates, 13712
catalytic combustion, ionization produced, 9596
fuel vapor-air mixtures, hot gas ignition temperatures, 17866
fuels, flammability properties, 5071
halogenated, flammability characteristics, 9371
radiation-induced oxidation of hydrocarbons, 5396
sensor detects hydrocarbon oil contaminants in fluid lines, 6394
unsaturated, mass and infrared spectra, 17863
Hydrochemistry:
hydrochemical determinations at sea, USSR studies, 2165
hydrochemical facies and ground-water flow patterns in northern part of Atlantic Coastal plain, 12022
Hydrocortisone:
effects of 9-alphafluorohydrocortisone on dehydration due to prolonged bed rest, 8206
serum and parotid fluid free 17-hydroxycorticosteroid levels in acute and chronic renal failure, 1627
Hydrodynamics:
instabilities limiting power of boiling water reactors, 15530
naval, ship motions and drag reduction, symposium, 16753
Taylor instability in stratified flow, 16596
tire hydroplaning, 16610
Hydroelectric power plants, *see* Electric power plants.
Hydrogen:
action at high temperatures and pressures, effect on steel, USSR study, 16506
argon-hydrogen plasmas, reaction of coal, 15030
atom, catalysis, recombination in rocket nozzles, 6341
chemisorbed on platinum electrode by interaction of carbon dioxide, 16764
compatibility of tantalum, columbium, and their alloys in presence of temperature gradient, 13842
cross section for impact ionization of H(1s) atoms by H(1s) atoms near threshold, 2420
cryogenic, flowing in tubes at subcritical and supercritical pressures to 800 pounds per square inch absolute, experimental heat transfer results, 7815
driver, used with Langley pilot model expansion tube, performance, 11056
fire detection system features sharp discrimination, 13800
fires, infrared television used to detect, 13798
gas, device removes from enclosed spaces, 13775
gas flowing in heated tube, laminar-flow instability from large increases in temperature, steady-state problem, investigation, 9514
Hydrogen—Continued
high-temperature atmosphere, refractory coating protects intricate graphite elements, 9452
hydrogen-fluorine propellant system, comparison of experimental and kinetically limited theoretical performance, 15195
hydrogen-fueled airplanes, structural concepts, 6414
hydrogen-oxygen rocket engine, 20,000-pound, propellant injection velocity, effect on screech, 7884
induction furnace, increased temperature yield, 6381
ionizing atomic, transport properties, 9506
liquid—
coating permits use of strain gage in 11001
densitometer system, high accuracy, etc., 17903
density measurement using open-ended microwave cavity, 17930
evaluation of pressurant gas injectors during pressurized discharge, 11077
in propellant tank—
nuclear heating, simulated, 6467
wall and bottom heating, 6439
pressurized tanks, interfacial heat and mass transfer, 6425
liquid-oxygen-gaseous hydrogen rocket engines, nonmetallic ablative materials as nozzle sections, 9510
maser frequency comparison with cesium beam standard, 7834
mixture properties for nitrogen and carbon-dioxide, 6337
oxygen-hydrogen torch as steam generator, 9460
plasma, low-density nonequilibrium, steady-state composition, 17912
potential of platinum electrode at low partial pressures, 17977
propellant, acceleration along magnetic tube by ion beams, 16702
sniffer used as portable leak detector, 13791
submicron tungsten powder preparation by hydrogen reduction of tungsten hexachloride, 16580
temperature-entropy diagram for parahydrogen triple-point region, 17943
thermal conductivity, 2000° to 4700° F, 7728
transient flow in heated passages in laminar-turbulent transition region, analysis, 15200
treatment of niobium, enhancement of superconducting current-carrying capacity, 16693
Hydrographs, runoff equation, analysis, 8126
Hydrohandling system:
sorting and sizing apples—
before storage, 14112
for storage in pallet boxes, 11357
Hydrology:
alluvial deposits, Ohio River Valley, Ky., 4530
alluvium of Arkansas River, Muskogee, Okla., to Fort Smith, Ark., 6040
aquifer systems (series), 12022
contributions to hydrology—
Africa and Mediterranean region (series), 16362
United States (series), 4529, 6040, 7491, 9024–25, 10650, 12031, 13417, 17728–29
Corey Creek basin, Pa., effect of agricultural conservation practices, 17725
Death Valley, Calif., hydrologic basin, description, 7485
Deep Springs Lake, Inyo County, Calif., 9018
Delmarva Peninsula, authorize study—
law, 17116
reports, 13147, 17215

Hydrology—Continued
Fort Belknap Indian Reservation, Mont., 824
Geological Survey research, 821, 6035, 12027, 13413
Glenn Creek drainage basin near Fairbanks, Alaska, studies, 8244
Guam, Mariana Islands (series), 4519
hydrologic analysis, postulated liquid-waste releases, Brookhaven National Laboratory, Suffolk County, N.Y., 13394
hydrologic effects of land use (series), 17725
hydrologic regimen of Salton Sea, Calif., 16360
hydrology of tidal streams (series), 10647, 13415
Louisville area, Ky., 9025
post-shot hydrologic safety, Project Shoal, 6867
recent developments, USSR studies, 993, 6201
runoff water in playas, 15435
specialists, Moscow State University, Training, 894
United States, bibliography, 6042
USSR—
developments in hydrological service, 13467
studies, 2208, 4671, 10797
vegetation and hydrologic phenomena (series), 6033
vertical motion of water, northern tropical and equatorial zones of Pacific Ocean, USSR study, 2190
see also International Hydrologic Decade, USSR—Water.
Hydrolysis, hydrolytic stability of dialkyl triorganosilyl-methoxymethyl phosphinates, USSR study, 6129
Hydromagnetic waves, *see* Magnetohydrodynamics.
Hydromechanics, statistical, USSR study, 16442
Hydrometeorology:
Cuba, USSR study, 14872
hydrometeorological observations for processing on electronic computers, preparation of results, USSR study, 14869
hydrometeorological reports, 1584, 15420
USSR scientific work at institutes of hydrometeorological service, 14873
Hydrometeors, sampling, impactors, electrically operated, 8248
Hydrooptics research USSR studies, 13534
Hydroplaning, tire, hydrodynamics, 16610
Hydroxylamines, interaction with some substituted anilines, 933
Hye Suk Paeng, *see* Paeng, Hye Suk.
Hygiene:
all-Union Scientific-Research Institute of Railway Hygiene, report on laboratories, 16391
ILO convention concerning hygiene in commerce and offices, text, etc., 17159
industrial—
and ultrasound, USSR study, 13488
effect of working conditions upon workers, USSR study, 998
environment, engineers and chemists, syllabus for short courses, laboratory manual, 16802
workers, publications, price list, 7986
labor—
and occupational diseases (USSR periodical), translations, 10742, 10746, 12187
and occupational diseases, USSR studies, 7617, 13544
in vibrocondensation in concrete, USSR study, 9179
occupational hygiene in painting with synthetic lacquers and paints, USSR study, 1028
PACAF basic bibliographies, 6804
publications, price list, 11179
Hygiene—Continued
radiation, reports on basic problems discussed at 4th practical scientific conference, USSR, 1013
Rumania, evolution and present problems, 12135
toxic chemicals used in agriculture, USSR symposium, 967
USSR studies, 2259, 6152
see also Health.
Hygiene and sanitation (USSR periodical): articles, 6174, 7552
Hygienists, *see* Dental hygienists.
Hyovalti, Duane C., antenna cut-back factor for LF radio waves, 6480
Hypatia, RLC6, lunar chart, 14186
Hyperbolas, rectangular, describing load-deformation response of soils in vehicle mobility research, 4339
Hypersonic airplanes, *see* Airplanes.
Hypersonic characteristics of aircraft configurations with canard controls, 9515
Hypersonic flow, *see* Flow.
Hypersonic speed, *see* Air speed.
Hypertension, *see* Blood pressure.
Hyperthermia, serum lipids and blood ketones during progressive hyperthermia, 12635
Hypervelocity impacts into stainless-steel tubes armored with reinforced beryllium, 13826
Hypnopedia, truth and fiction surrounding limits and possibilities, USSR study, 2239
Hypnosis:
dreams during, USSR study, 14849
present day applications, USSR studies, 17780
Hypodermic needles, hollow needle used to cut metal honeycomb structures, 11036
Hypodynamics, USSR, hypodynamia experiment, 2228
Hypohydration, involuntary, in man and animals, review, 10979
Hypokinesia secondary to chair rest from 4 to 10 days, 6811
Hypophthalmichthys, white tolstolobiks, breeding in Amu Darya River basin, 4627
Hypophysis, *see* Pituitary glands.
Hypoplasia, cerebellar, congenital, effects on developmental behavior and vestibular system in cats, 12628
Hypothermia:
cross circulation and heat exchangers employment, study of central nervous system changes, 3780
profound, effects on spinal cord of dog, histologic study, 80
treatment of terminal states, international symposium, 4662
Hypoxia:
chronic, capillary development during exposure, 9865
electrolyte content in biological fluids and function of cochlea, USSR study, 16422
experimental hypoxic hypoxia on blood clearing factor, USSR study, 930
hypoxia and performance decrement, 15557
influence of different grades on sensitivity to epileptogenic agents, etc., USSR study, 1022
Hyre, French M., PCA cooperative-patron credit plan, 16254
Hysteresis and eddy-current losses of transformer lamination viewed as application of Poynting theorem, 1276
Hyver, Gregory A., optimization of relay controlled system subjected to random disturbances, 10958

I

I & N reporter, 3049
I.B.R.D., *see* International Bank for Reconstruction and Development.
I.C.C., *see* Interstate Commerce Commission.

I.C.O., *see* Interagency Committee on Oceanography.
I.R.S., *see* Internal Revenue Service.
IADS, *see* International Agricultural Development Service.
IAEA, *see* International Atomic Energy Agency.
Iampietro, P. F., problems in aviation personnel, influence of transquilizer on temperature regulation in man, 15556
Iassidae, catalogue, 16917
Ibach, D. B., fertilizer use in United States, its economic position and outlook, 11861
IBRD, *see* International Bank for Reconstruction and Development.
IBT—National Tea Co. Employees Retirement Fund, tax exemption, report, 17562
ICA, *see* Industrial College of Armed Forces.
ICAF, *see* Industrial College of Armed Forces.
Icarus project, *see* Project Icarus.
ICC, *see* Interstate Commerce Commission.
Ice:
  adhesion to hydrophobic surfaces, 15252
  bibliography, with abstracts, 16957
  calculation of processes caused by introduction of ice crystals into supercooled small-drop clouds, USSR study, 1067
  cap in Greenland, performance testing of air cushion vehicle, 9890
  conditions, weather and crop bulletin (periodical), 3703
  conductivity changes produced in ice by optical irradiation, 15505
  cover of Arctic proglacial lake, 9887
  energy requirement for placing instrument package under ice, 8236
  floating sheet, time dependent deflection, 15510
  Great Lakes ice cover for winter of 1964–65, 9340
  measurement of natural particulate fallout onto high polar ice sheets, laboratory techniques and results, 8235
  migration of liquid inclusions in single crystals, 6833
  mode of uplift of fish and fossiliferous moraines of McMurdo Ice Shelf, Antarctica, 5344
  polar ice cap, water production, by utilization of waste engine heat, 8247
  self-diffusion in single crystals, 8239
  thermal properties, mathematical analysis, 9888
  upper Mississippi ice jam, hearings, 8678
  visual resolution and optical scintillation, 8233
  see also Ice crystals—Sea ice.
Ice age, *see* Glacial period.
Ice cream, ices, etc., industry, sources of information, 6881
Ice crystals:
  nucleation and growth, 4552
  surface abrasion, application of thermal etching to study of ice etching, 1636
Ice Harbor Dam, fish passage reports, 667, 11888
Iceland:
  agricultural commodities, agreement, 8084, 15374
  general information, 1632
  labor conditions, 13635
  lights and fog signals, lists, 2483, 7960, 12408
Ichiban, *see* Critical assemblies.
Ichthyology, *see* Fish and fisheries.
Ichthyophthirius multifiliis, fish disease, 11968
Icing resistance, lubricants for aircraft ordnance, factors affecting, 2500
ICO, *see* Interagency Committee on Oceanography.
ICY, *see* International Cooperation Year.
Idaho:
  census of business, selected services, area statistics, errata, 197
  climatological data, 2751
  congressional districts, 90th Congress, 17013
  county business patterns, 227, 15578
    errata, 5463
  electric rate book, 708
  Jefferson Soil Conservation District, water from mountain snowmelt irrigates potatoes (colored poster), 9671
  life tables, 18020
  manufacturing plants, location by county, industry, and employment size, 1963 census, 14260
  Mead Peak, phosphate samples, petrographic and flotation studies, 9374
  phosphate industry and its resources, evaluation, 13691
  precipitation data, hourly, 3045
  south-central, Douglas-fir, initial vegetal development following prescribed burning, 16337
  southern, ponderosa pine, pine butterfly defoliation, 16325
  water supply outlook and snow surveys, 3689
  women, labor laws, summary, 14090
Idaho Springs district, Colo., economic geology, 9011
Ide, Donald C., selling in Lebanon, 11520
Identical bidding in public procurement, 5th report of Attorney General under Executive order, 10936, 17797
Identification:
  aircraft and related products, Federal aviation regulations, changes, 5918, 14601
  Federal item identification guides (FIIG) improvement program, general conference, 11848
  identification of individuals through photographs, USSR study, 16505
  item identification, supply cataloging manual, 603
Ideology:
  and religion problems in USSR, 13586
  Islam, overcoming, USSR study, 4598
  poisonous, of the Baptists, USSR view, 7577
  United States ideological offensive in winning cold war—
    hearings, 513
    report, 4090
      print additional copies, report, 17195
IEEE, *see* Institute of Electrical and Electronics Engineers, Inc.
IESC, *see* International Executive Service Corps.
IFF radar (Identification, Friend-or-Foe), *see* Display systems.
IFR, *see* Instrument flight rules.
Igneous rocks, beryllium content of volcanic rocks, 9012
Ignition:
  coal mine refuse, burning, control, 9379
  heated dust dispersion, thermal phenomena, 13695
  hot gas ignition temperatures of hydrocarbon fuel vapor-air mixtures, 17866
  incendivity of explosives to coal dust, improved method for evaluating, 16573
  kinetics of carbon monoxide-oxygen reaction, 16706
  see also Combustion.
Ignitrons, compact SCR trigger circuit, for ignition switch operates efficiently, 1222
Iguanids, *see* Lizards.
IGY, *see* International Geophysical Year, 1957–58.
Ike, A. F., jr., sycamore produces viable seed after years, 16330
IKM, *see* Radio pulse code modulation.
Ileum, *see* Intestines.

Illinois:
allocation of school facility costs to federally assisted urban renewal projects, GAO report, 6002
climatological data, 2751
county business patterns, 1717, 5464
electric rate book, 11928
flow characteristics of oil-producing sandstones, laboratory evaluation, 12258
four inert dusts on stored shell corn for protection against insects, progress report, evaluation, 14108
health services grants made by PHS, administration, GAO report, 13380
life tables, 18021
manufacturing plants, location by county, industry, and employment size, 1963 census, 14256
mineral districts, regional structure, 6029
mineral industry, minerals yearbook chapter, 2327
Ogle County Soil and Water Conservation District, parallel-terraced alfalfa field (colored poster), 9672
postal map, 13931
precipitation data, hourly, 3045
timber resources, 7463
Illinois Central RR., accidents, 6098–99
Illness, *see* Sick.
Illumination, *see* Lights and lighting.
Ilmenau Technical College, Institute for Precision Engineering, satellite camera development, 1033
ILO, *see* International Labor Organization.
Image (psychology):
team procedures in image intrepretation, 14234
Image interpreters:
ability to adapt output to varying requirements for completeness and accuracy, 12667
selection battery, development, 9915
Image tubes, image converter tube for middle infrared with photoconductive layer and photoemissive layer juxtaposed, the Serval, 13505
Immersion:
effects on orthostatic tolerance, 11378
near-drowning, pathophysiology and treatment, 14996
water, technique for study of mobility of pressure-suited subject under balanced-gravity conditions, 4900
Immigration and emigration:
applications for adjustment to permanent resident status filed prior to Dec. 1, 1965 by natives of Western Hemisphere, permit Attorney General to adjudicate, report, 12972
coolie trade laws, repeal, report, 15910
immigration and nationality act, amend—
hearings, 14430, 14496
print additional copies, reports, 500, 562
law—
explanation in question-answer form, 520
summary, 522
report, 12972
immigration and nationality act, text including amendments, 10254
investigation—
authorization, report, 4191
report on findings, etc., 5781
laws, administrative decisions, 4542
indexes, 12039, 14762
national origins system for selection of U.S. immigrants, abolish—
hearings, print additional copies, reports, 500, 562
law, summary, 522
Polish emigre writings, critique of historical authenticity of published documents, 7590
Immigration and emigration—Continued
publications, price list, 1407
Ukrainian nationalist emigres denounced as enemies of Ukrainian people, USSR study, 2193
Immigration and Naturalization Service:
annual report, 7501
I & N reporter, 3049
immigration patrol inspector, examination announcement, 11497
interim decisions, 3070
Immigration border patrol, *see* Border, Patrol, Immigration and Naturalization Service.
Immunity, chemical protection against radiation damage to immune response in mouse spleen cells, 15494
Immunization:
and viral aerosols, USSR studies, 14891
guinea pigs against plague, smallpox, etc., USSR studies, 10834
information for international travel, 1425
Immunoelectrophoresis, antigen concentration and nonreacting additives influences on mobility and diffusion, 12646
Immunology:
immunological specificity of host proteins under effect of some antibiotics, USSR study, 7620
space problems, USSR study, 4647
IMP, *see* Interplanetary monitoring platform.
IMP, intra-industry management program helps business help itself, 8018
Impact:
and puncture-resistant material protects parts from damage, 15105
high-fineness-ratio projectiles into thick targets, 7841
high-velocity, craters in ablative heat-shield materials, determination of temperature and material effects, 16689
hypervelocity—
dimple, spall and perforation characteristics in aluminum, colmbium, and steel plates, 12350
into stainless-steel tubes armored with reinforced beryllium, 13826
impact-light-flash at high velocities, experiments, 7738
multiple-impact study of energy absorption, errata, 1179
oblique, of solid body on soil, USSR study, 16429
pressure waves generated in water filled tanks impacted by high-velocity projectiles, 4912
projectile-induced fracture of liquid-filled tanks, 11076
terrestrial impact structures, bibliography, 16356
testing of long travel shock mounts, 5378
Impact limiters, balsa, practical limits, 4924
Impacted areas, *see* Schools.
Impactors, electrically operated, for hydrometeor sampling, 8245
Impedance:
lead-impedance and waveform effects of linear class B audio amplifier output-power capability analysis, 16758
microwave, measurements and standards, errata, 5008
Imperial Council of Ancient Arabic Order of Nobles of Mystic Shrine, *see* Ancient Arabic Order of Nobles of Mystic Shrine.
Imports:
articles imported, reports to include landed value, hearings, 16183
by air, foreign trade reports, 2996–97, 3002
competition (remarks), 336
consumption and general imports, 5502, 8372
announcement and order form, 11480
tariff schedules, commodity by country, 9970

Imports—Continued
detentions, food, drug, and cosmetic products, report, 3465
foreign trade—
reports, 2994, 5502, 8372
summary reports, monthly, 3642, 3645–47, 3649
free and dutiable goods and average rates of duty, 5552
general, foreign trade reports, monthly, 8365
quantitative restrictions and quotas as cited in tariff schedules of U.S., 1510
statistical classification, schedule W, 8369
total trade, summary reports, monthly, 3649
trade by—
commodity, summary reports, monthly, 3645
country, summary reports, monthly, 3646
customs district, summary reports, monthly, 3647
U.S. commodities as related to output, 6939, 17018
United States airborne foreign trade, customs districts by continent, summary report, 11481
United States trade with major world areas, 15648
working-day and seasonal adjustment factors and months for cyclical dominance (MCD), 3940
see also Tariff—*also* names of classes of articles imported—*also* names of countries, etc.
Improving sawmill profits through operations research, 4476
Impulse and thrust test of sublimating-solid micropropulsion system, 6432
In these hands, story of air traffic control, 16268
In your service, work of Uncle Sam's forest rangers, 1582
Inauguration of the President, *see* President of United States.
Incendivity, *see* Ignition.
Incentive payments, differential monetary rewards, effects on 6 uninterrupted hours of monitoring, 3794
Income:
and resources, simplified methods for consideration, 4348
consumer expenditures and income—
rural farm population—
north central region, 14117
northeastern region, 15438
southern region, 14118
United States, 12590
western region, 25, 12589
rural nonfarm areas—
north central region, supp., 2289
northeastern region, supp., 1089
southern region, supp., 2290
United States, supp., 6255
western region, supp., 2291
urban and rural, 1960–61—
north central region, supp., 7662
northeastern region, supp., 10854, 12207
southern region, supp., 7663
tables, 2292
total north central region, 10855
total southern region, 13591
total western region, 10856
United States, 10857, 12208
western region, 9205
consumer income—
families and unrelated individuals, 1964, by metropolitan-nonmetropolitan residence, 8364
series, 8364, 14277, 15592
family, 1965 median, 14277, 15592
Income—Continued
farm—
costs and returns—
commercial Corn Belt farms, 14533
commercial egg-producing farms, New Jersey, 621, 14532
commercial tobacco farms, coastal plain, North Carolina, 10412
commercial tobacco-livestock farm, Bluegrass area, Ky., 14531
commercial wheat farms, Pacific Northwest, Northern and Southern Plains, 14530
western livestock ranches, 14529
increased, outlook (address), 3739
situation, 2908
social security payments, effect, 18100
farmers, self-employed, reporting income for social security, special information, 9655
income loss protection against short-term sickness, 1948–64, 1472
low income—
families—
home economics program assistants, training, 62
women's earnings, 2634
life styles, 14078
old age income assurance, issues and alternatives, 17153
older people, 1964, supp., 2623
per capita money income, 1959, by counties of United States, map, 9971
railroads, selected items, 3506
tax returns statistics—
corporations, 7521
fiduciary, gift, and estate tax, 4570
individual, 6072, 13437
unrelated debt-financed, of tax-exempt organizations, impose tax, hearing, 15997
western livestock ranches, effects of changes in grazing fees, 4279
see also subject from which income is derived.
Income tax:
bank holding company act, treatment of distributions pursuant to, report, 17536
contributions to needy older relatives, tax consequences—
hearing, 14469
report, 17534
corporations outside D.C. making loans secured by D.C. property, clarify status—
law, 15761
report, 12905
deductibility of accrued vacation pay, extend time, reports, 17221, 17524
deductions—
contributions to certain organizations for—
changes in State constitutions, report, 13162
judicial reform, report, 5658
farmers, depreciable property, assessments for soil or water conservation or drainage districts, report, 17334
organizations, contributions to which are deductible, list, supplements, 2813
pension and profit sharing plans, self-employed individuals, contributions, report, 10174
reserve for certain guaranteed debt obligations, reports, 15936, 17523
District of Columbia—
increase—
hearings, 1936, 8771, 13026
law, 15777
report, 10283
withholding by Federal agencies, regulations, rescission, 15396
double taxation, convention with—
Belgium, protocol, report, 1887

Income tax—Continued
double taxation, convention with—con.
Belgium, supplementary protocol, 13074
Germany, Federal Republic, protocol, report, 1887
Israel, 13073
Netherlands—
agreement, 16865
tax protocols, report, 13087
Philippines, 13071
Thailand, 13072
ratification, hearings, 576
United Kingdom, protocols, report, 13087
employer's tax guide, 854
exemption for combat pay of commissioned officers, increase—
message from the President, 17162
report, 17307
exemption of nonprofit corporations providing reserve funds for building and loan associations—
law, 5578
report, 4167
farmer's guide, 2117
graduated withholding and speedup of corporate taxes—
hearings, 4151, 5804
law, 7032
summary, 7170
legislative history, 17399
reports, 5659, 5665, 7086
Senate amendments, summary, 8687
summary, 7211
indirect stock purchases, treatment, report, 17309
information for visitors to United States, 2126
IRS looseleaf regulations system, 858–59, 2119–20, 3166, 4562–63, 6069, 7517–18, 10679, 13436, 14776, 17742–743
liability on savings bonds, some legal aspects, 2549
military personnel, reporting of taxable income and withholdings, GAO report, 13382
mortgage guaranty insurance companies reserve funds, treatment, report, 17536
personal income taxes, Federal-State coordination, 3723
per-unit capital retains, tax treatment by cooperatives and patrons, 4352
returns, filing directly with Internal Revenue centers—
report, 17226
written statements by individuals and organizations, 17401
returns, statistics—
corporations, 7521, 9049
individuals, 6072, 13437
partnerships, corporations reporting depletion allowances for mineral production, 7520
self-employed retirement deduction for 1964, Treasury Dept. report, 14445
small business corporations, amend internal revenue code—
law, 8465
reports, 5649, 7176
State—
and territorial, withholding on compensation of Federal employees, regulations, rescission, 15395
withholding from salaries of Federal employees, regulations, rescission, 15397
supplementary convention with Netherlands, 7174
supplementary protocol with Great Britain, message from the President, 10277
suspensions of investment credit and accelerated depreciation—
hearing, 17400
reports, 15932, 17341, 17537
teaching taxes program, general, teacher's guide, 2128
Income tax—Continued
travel, entertainment and gift expenses, rules for deducting, 2123
treatment—
casualty losses attributable to major disasters, etc., reports, 1837, 17562
exploration expenditures in case of mining—
law, 15747
reports, 5648, 13154
expropriation loss recoveries—
law, 8460
report, 8728
income resulting from lapse of options written as parts of straddles, report, 4153
treble damage payments under antitrust laws, staff study, 535
uniformed services retirement pay, election of annuities for survivors—
law, 5590
report, 5768
unrelated debt-financed income of tax-exempt organizations, impose, hearing, 15997
your Federal income tax—
announcement and order form, 17997
individuals, 864
Incremental or one-trial learning of verbal series, 83
Indemnity:
Price-Anderson provisions of atomic energy act, amend—
hearings, 15778
law, 17135
reports, 15913, 15926, 16135
Independent offices, *see* Government offices.
Inderdohnen, John F., small business location and layout, 6598
Index digests:
consolidated, of I.C.C. reports, motor carrier operating rights, 867
procurement legal service pamphlets, cumulative index-digest, 12657
Index numbers, mineral industries, 1111
see also subjects, e.g. Production.
Indexes:
aerospace medicine and biology, bibliography, 10889, 10982
agricultural research (periodical), v. 4–6, 1955–58, 6
AMC publications and blank forms, military, 5340
Antitrust Subcommittee publications, 7154
armed services papers, 1845
Atomic Energy Commission, news release, 6850
author index, particles and fields research, bibliography, 12291
broadcasting stations of world—
amplitude modulation—
frequency, 14687
indexed by country and city, 14686
frequency modulation, by country, city, frequency, 14688
television, 14689
catalog of investment information and opportunities, 6076
southeast Asia supplement, 16383
Civil Defense Office publications, 5511
Civil War military operations, prospectus, 14313
code of Federal regulations, 11930
Commerce Department publications, 1964 supplement, 364
congressional record—
daily, 2782
88th Cong., 2d sess., bound volume, 1782
court-martial reports, opinions cited, etc., 10384
Czechoslovak laws, regulations published in Sbirka zakonu CSSR, 1965, 9139
Defense Department, specifications and standards, 3055, 14519

Indexes—Continued
Defense Supply Agency, publications, forms, etc., 4245, 10390
diabetes literature, 7928
digest of public bills and resolutions, 2855
electromechanical transducers, bibliography, 6359
Employees' Compensation Appeals Board decisions, index digest, 11885
English teaching forum, 1526
ERIC catalog of selected documents on disadvantaged, 16226–227
Federal item identification guides for supply cataloging—
alphabetical index of names, 4252
numeric index of description patterns and item name codes, 5850
Federal register, 2957
Federal specifications and standards, 3052, 7426
Federal supply classification—
alphabetic index, 2964, 4243
numeric index of classes, 4242
supplement, 2963
flood damage prevention, bibliography, 15389
fundamentals of electronics, transparencies, 15244
geographical, of Thailand, 1026
Government-wide index to Federal research & development reports, 3025, 12759
hearings—
National Aeronautics and Space Administration, 1967, authorization, 11683
war on poverty as it affects older Americans, report, 11780
Immigration and Naturalization Service, administrative decisions, 12039, 14762
index medicus, 3050
cumulated, 12394
journals indexed, list, 9564
JAG journal, 1073
journal of executive proceedings of Senate, 89th Cong., 1st sess., 4156
Judge Advocate legal service, Army pamphlet, 5354
languages and dialects, classification, Library of Congress, 4740
management issuances, NASA policy directives, NASA management instructions, 1178
Maritime Administration, Maritime Subsidy Board, National Shipping Authority, current regulations, 12231
medical and veterinary zoology, 5274, 8133, 16918
military periodicals, Air University Library, 2664
Le Monde, 3054
NASA tech briefs, 6356, 15083
National Institutes of Health library translations, 1965 supplement, 13977
Navy officer classifications manual, 5063
nuclear science abstracts, 3285
cumulative report number, with public availability citations, 3857, 6871, 8302
Oak Ridge National Laboratory, master analytical manual, 9925
organization of Congress, hearings, 14368
output per man-hour—
concrete products industry, 4716
hosiery industry, 14968
Patent Office, to classification, 17984
patents, 7980
pesticides documentation bulletin (periodical), 3322
photonuclear data, 7915
planetary atmospheres, continuing bibliography, 15091
plant virus diseases, 11346
Indexes—Continued
proceedings of National Museum, 16735
renegotiation rulings and bulletins, 15318
Russian accessions, 3214
scientific and technical aerospace reports, 3493
Social Security Administration research reports and research and statistics notes, 9653
La Stampa and La Stampa sera, 3053
surface water records to Dec. 31, 1963—
Alaska, 2100
Hudson Bay and upper Mississippi basins, 2098
North Atlantic slope basin, 4515
Ohio River basin, 2096
Pacific slope basins in Washington and upper Columbia River basin, 2099
St. Lawrence River basin, 2097
south Atlantic slope and eastern Gulf of Mexico basins, 2095
TFX contract investigation, hearings, 10348
trademarks, 11167
tuberculosis beds in hospitals and sanatoria, 13998
water pollution control research and training grants, 1962–64 publications and reports, 10517
weather stations, 16748
Yards and Docks Bureau publications, 8119
Indexing:
cooperation, etc., among information systems, literature review, 11091
method, gear drive automatically indexes rotary table, 15113
India:
accessions list, Library of Congress American Libraries Book Procurement Center, New Delhi, 3059
agricultural commodities, agreement, 2583, 5165, 8069, 9735, 10683
amateur alien radio operators, authorization to operate, agreement, 15373
background notes, 8045
cotton, 2055
economy, basic data, 4005
food supply, increasing, and strengthening economy, message from the President, 8499
mineral industry, minerals yearbook chapter, 2328
national industry development, and status of worker class after independence, 4597
refugee problems, report, 14389
relieve hunger victims, U.S. participation—
hearings, 8762, 11636
law, 11549
reports, 8594, 8737
Soviet journalists' trip, report, 10800
special study mission report, Nov. 7–Dec. 12, 1965, report, 7099
visit by Senate delegation, report, 5811
west coast, sailing directions, change, 6520
Indian Affairs Bureau:
appropriations, 1967, hearings, 7113
Commissioner, nomination of Robert L. Bennett—
hearing, 7217
report, 10278
improvement of programs for Indians (remarks), 10669
Navajo Tribe of Indians, management of tribal funds, need for effective guidance, GAO report, 11999
need for improvements in management of moneys held in trust for Indians, GAO report, 6013
press releases, 3377
recovery of Gov't. expenditures incurred in management of Indian forest enterprises, GAO report, 7467
report, 7506

Indian Affairs Bureau—Continued
school construction standards, savings attainable through revision, GAO report, 9002
unauthorized acquisition of passenger vehicles, GAO report, 811
vehicle management, need for improvement, GAO report, 7468
Indian Claims Commission:
appropriations, 1967
hearings, 7113, 8763
law, 10086
reports, 8592, 10281
cases before, revolving fund to finance assistance, increase authorization—
law, 17107
reports, 14393, 17483
termination date, extend, reports, 14396, 16124
Indian Health Division, general practice residency program, 7991
Indian lands:
appraisers, Justice Dept. need to improve contracting procedures, GAO report, 13374
fractional interests in trust and restricted allotments, reduce number, hearings, 13043
heirship problems, amend law, report, Interior Department decisions, 3071 16125
long-term leasing act, amend rel. to Pyramid Lake Reservation—
law, 10059
report, 8599
see also names of Indian tribes or reservations.
Indian Ocean:
Arabian-Indian ridge, serpentinites from crest, 12189
atlas of bathythermograph data, 15231
explorations of survey ship, USC&GS Pioneer—
cruise narrative and scientific results, 11503
oceanographic stations, BT observations, and bottom samples, data report, 15636
lights and fog signals, list, changes, 2481, 9583, 13896, 17970
notice to mariners, 3279
radio navigational aids, changes, 1339 5057, 9585, 13898
radio weather aids, 5058, 7961, 13899
tide tables, 12764
Indian Ocean Expedition, *see* International Indian Ocean Expedition.
Indian reservations:
map of United States—
showing Indian reservations, etc., 13651
showing national forests, announcement and order form, 17999
offenses, committed by Indians, amend U.S. Code, report, 17554
water supply of Indian reservations (series), 824
see also names of reservations.
Indian schools, construction standards, revision to avoid excess seating in dining facilities, GAO report, 9002
Indiana:
aeroradioctivity survey and areal geology, 11418
Camp Atterbury, legislative jurisdiction, retrocede to—
hearing, 17360
report, 12995
census of business, 1963, retail trade, area statistics, errata, 3875
climatological data, 2751
congressional districts, 90th Congress, 15603
county business patterns, 1718, 5465
Indiana—Continued
donation of George Rogers Clark Memorial, accept—
law, 15707
reports, 10179, 13141
flow characteristics of oil-producing sandstones, laboratory evaluation, 12258
health grants made by PHS, financial administration, GAO review, 16347
life tables, 18022
manufacturing plants, location by county, industry, and employment size, 1963 census, 14256
medical assistance for the aged, under social security act, 11905
mineral industry, minerals yearbook chapter, 1125
postal map, 13932
Orange County Soil and Water Conservation District, French Lick Watershed Reservoir and Recreation Area (colored poster), 9673
precipitation data, hourly, 3045
statehood, commemorative stamp (poster), 6562
Stringocephalus in Devonian of Indiana, 11224
women, labor laws, summary, 2630
women workers, 5253
Indiana Dunes National Lakeshore:
establish—
hearings, 5695, 10248
reports, 12980, 15923
Indiana University, mass spectrometer, duty-free entry, 17184
Indianapolis, Ind.:
area wage survey, metropolitan area, 7667
principal electric facilities, map, 7375
Indians:
affairs, 1965, progress report, 7506
Arizona tribes, general information, 12041
California—
general information, 16368
judgment funds, disposition, hearings, 14427
Central Plains, general information, 16369
children, picture story book, 13423
civil actions by tribes in district courts, remove limitation—
law, 17127
reports, 17236, 17482
code of Federal regulations, 11933
constitutional rights, hearings, 1942
Dakotas, general information, 14763
dental services, fiscal year 1965, annual report, 6573
education, 1965, statistics, 4547
famous, collection of short biographies, 17734
Federal facilities, reports, 11788, 13192
forest enterprises, recovery of Gov't. expenditures, GAO report, 7467
Gulf Coast tribes, general information, 14764
health pediatrics residency program, 2524
health program—
Operation SAM, systems analysis module for development, 15292
Public Health Service, 11190
Indian education (periodical), 12040
Indian health highlights, 15284
Indian leader (periodical), 3060
Indian school journal (periodical), 3061
loans, guaranteed and insured, for financing economic enterprises, reports, 17211
Montana & Wyoming tribes, general information, 14765
music, 4545
need for improvements in management of moneys held in trust, GAO report, 6013
New Mexico tribes, general information, 14766
North Carolina, culture and civilization, 7507

Indians—Continued
Northwest tribes, general information, 14767
offenses committed in Indian country, amend U.S. Code, report, 17554
Oklahoma, culture and civilization, 4546
preventive medicine, residency program, 6574
publications, price list, 16787
ready to move forward at faster pace (remarks), 10669
revolving fund, assistance in cases before Indian Claims Commission, increase authorization—
law, 17107
reports, 14393, 17483
revolving load fund, amend law, report, 16125
teen-agers, college and technical training opportunities, 13425
tribal relations with Federal Government, 1965–66, report, 13192
see also headings beginning Indians—*also* names of reservations or tribes.
Indicators, fuel moisture content of indicator sticks from weather variables, 10606
see also Depth indicators—Direction indicators—Gas indicators—Temperature indicators.
Indonesia:
accessions list, Library of Congress American Libraries Book Procurement Center, Djakarta, 3062
agricultural commodities, agreements, 15361, 16860
health information for travel, 6579, 16795
mineral industry, minerals yearbook chapter, 4765
political history and Oct. 1 coup, Swedish leftist view, 14902
report, 9115
situation, Soviet literary gazette comments, 9168
Soviet-Indonesian economic cooperation, 6176
Inductance, inductive system detects level of conducting fluids, 15122
Induction furnaces, hydrogen-atmosphere, increased temperature yield, 6381
Induction heating, auxiliary coil controls temperature of RF induction heater, 6393
Induction processed separable tubular brazed connectors, 12273
Industrial accidents, *see* Accidents.
Industrial agreements:
adjustment assistance by certain workers, General Motors Corp., Grand Rapids, Mich., Tariff Commission report, 11288
wage calendar, 1966, major agreement expirations and reopenings, 4737
Industrial arbitration:
collective bargaining agreements arbitration procedures, 10858
compulsory arbitration, 1951–66, selected references, 6249
railroad arbitration board, law, administration, hearings, 5802, 13197
State legislation, mediation laws, summary, 4707
Industrial arts:
education—
learning art of industry, 11875
survey of programs, teachers, students, and curriculum, 13274
teachers, advanced study, national defense institutes, manual, 5877
Industrial College of Armed Forces:
catalog, 16387
catalog of publications, 26388
correspondence course offered on national security management, 2144, 13445
information booklet, 4586
monograph publication R series, 16388
Industrial College of Armed Forces—Con.
National Security Seminars—
information guide for conduct of, 13444
presentation outlines and reading lists, 2145, 14787
prospectus, 13446
Industrial defense, *see* Civilian defense.
Industrial designers, employment outlook, 9223
Industrial diamonds, *see* Diamonds.
Industrial districts, water resources of industrial areas (series), 825
Industrial dryers, *see* Dryers (industrial).
Industrial education, *see* Technical education.
Industrial engineers:
employment outlook, 9236
hygiene, syllabus for short courses, laboratory manual, 16802
Industrial equipment, *see* Production equipment.
Industrial health, *see* Health.
Industrial hygiene, *see* Hygiene.
Industrial instruments:
and equipment, Japan, 4014
exports, 1959–65, analysis, 9940
Industrial machinery, *see* Machinery.
Industrial management:
civil defense, special instruction for business and industrial executives, 17026
control of social processes and cybernetics, USSR study, 1053
IMP, intra-industry management program helps business help itself, 8018
Latvian plants, cybernetic methods applied to production management, USSR study, 12185
management problems from viewpoint of cybernetics, USSR study, 1052
management rights, major collective bargaining agreements, 9206
Industrial mobilization, *see* Industry.
Industrial parks, planning airport industrial park, 105
Industrial plants, *see* Plants (industrial).
Industrial production, *see* Production.
Industrial referral service, 1764
Industrial relations:
BLS studies, 1954–65, directory, 2304
labor-management relations (Taft-Hartley) act—
amend, hearing, 17590
amended by Public law 86–257, 1959, text, 2463
national emergency disputes, 9332
repeal of sec. 14(p), report, 1833
labor management reporting and disclosure act—
amended, text, 4695
summary of operations, 7648
national labor relations act—
amend, report, 8543
amend sec. 8(a)(3), report, 1833
amended through 1959, summary, 2462
exercise in industrial democracy (address), 11119
Post Office Department and AFL–CIO, agreement, 16779
publications, list, 3262
right-to-work and union security, selected readings and references, list, 2286
State labor relations acts, summary, 4706
State legislation, mediation laws, summary, 4707
unfair labor practices, case developments, quarterly report, 3445
union-management cooperation, major collective bargaining agreements, 9206
Industrial safety, *see* Safety of life.
Industrial security, *see* National security.
Industrial services for nursing home industry, 4332, 7328
Industrial waste, *see* Waste products.
Industrial workers, *see* Labor.
Industries, *see* Industry—Manufactures and manufacturers—*also* names of industries.

Industry:
aesthetics and cybernetics, application, USSR study, 14802
Air Force/industry data management symposium, Sept. 28–30, 1965, proceedings, 3791
air pollution and industrial poisons, USSR studies, 898
air pollution as related to industrial development (paper), 13956
American—
funds for research and development, 1964, preliminary report, 7951
profit sharing industries, part of enlightened management (address), 319
real opportunity and challenge of change of progress (remarks), 10044
technological trends in major industries, 13607
American Samoa, minimum wage rates, data, 5218
basic research, applied research, and development industry, survey, 7950
final report, 16740
Bulgarian National Assembly's permanent commission, progress noted at session, 14952
civil defense seminars, handbook on how to plan, organize, etc., 289
Communist China, translations, 3596
concentration and efficiency, hearings, 1943
current industrial reports, 246–265, 1731–35, 2817–18, 3179, 3920–24, 5472–85, 6920–23, 8351–57, 9962–63, 11463–466, 12707–723, 15581–590, 17006
cybernetics in, USSR study, 12130
defense industry bulletin (periodical), 2844
electronics, implications of reduced defense demand, 110
fire safety today, 16352
Government-industry cooperation (address), 15562
growth country for industry, living country for you, 12601
heavy East European, translations, 3603
India's national development, status of worker class, etc., 4597
industrial civil defense protection of vital records, 15622
industrial instruments and equipment, market in France, 1773
industrial mutual aid association for civil defense, handbook on how to organize, 12742
industrial outlook, 1694
industrial referral service, 1764
industrial research and development funds, geographic distribution, 2477
industrial technology—
Government must foster for industry (address), 4000
training programs, compendium, 10018
industry reports, 2746, 2789, 2795, 2798, 3228, 3416, 3433
internal cost accounting of industrial enterprise, Bulgarian study, 13582
invitation to join in research, 6475
joint industry promotional funds, employer contributions, hearing, 17590
mobilization plans (remarks), 5434
mobilization, review, hearing, 453
planning, USSR study, 6198
plans for progress program, 12198
practices and policies in employment of youth, 1540
profiles, catalog of investment information and opportunities, supplement, 9052
question and answers, QA–IND series, 15417
radioisotopes and ionizing radiation, uses and trends, 150
radioisotopes in industry, 1688
Industry—Continued
safety of life, mechanical and physical hazards series, 14965
socialism, financing and crediting of social enterprises, Bulgarian study, 13581
statistics in industry, USSR book review, 7591
statute on socialist state industrial enterprise in USSR, 890
technical assistance, foreign programs, compendium, 10017
toxic substances used, effect on living organisms, 1016
TVA area, Development, 11292
USSR—
bonus fund for workers, 4668
data processing systems, 10790
new directions in Soviet economy, 12844
sanitary classification and minimum protective zones, 9123
statistics, 2181
USSR development, translations—
automotive industry, 3658
chemical industry, 3659
chemical machine building, 3660
construction machinery, 3661
electrical equipment, 3662
ferrous metallurgy, 3663
general information, 3656
machine industries, 3657
metalworking equipment, 3664
nonferrous metallurgy, 3665
power machinery, 3666
precision equipment, 3667
regional economy, 3668
tractors and agricultural machinery, 3669
Virgin Islands, report, findings of fact, and recommendations, 1533
wage survey—
banking, 2302
candy and other confectionery products, 16537
cigarette manufacturing, 4732
communications, 4729
contract cleaning services, 12220
cotton textiles, 14979
fabricated structural steel, 2298
fluid milk, 4719
footwear, 13617
hosiery, 1090
machinery manufacturing, 7670
nonferrous foundries, 10873
nursing homes and related facilities, 9335
paints and varnishes, 17812
paperboard containers and boxes, 9331
petroleum refining, 17813
synthetic textiles, 17809
west coast sawmilling, 2296
women's and misses' coats and suits, 13619
wood household furniture, except upholstered, 10872
Western Europe, retraining and labor market adjustment, 1080
womanpower, shortage or surplus? assessment in Boston, conference report, 16912
working conditions, effect upon workers, USSR study, 998
see also Manufactures and manufacturers—*also* names of industries.
Inelastic deformation of rock under hemispherical drill bit, 16582
Inert-gas welding and brazing enclosure fabricated from sheet plastic, 1214
Inert gases, *see* Noble gases.
Inertia:
convective, flow and pressure field analysis of parallel groove geometry, etc., 15201
system for inertial experiment pointing and attitude control, 15202
Inertia, moments of, *see* Moments of inertia.

Inertial guidance, optical-inertial space sextant for advanced space navigation system, 10964
Inertial navigation, *see* Navigation.
Infants:
babies look and learn, guide for parents, 6772
babies touch, taste, and learn, guide for parents, 6771
breast feeding your baby, 3943
guarding health, USSR studies, 9074
infant care, story of development of best-seller, 278
mortality—
rates for birth cohorts, 6584
trends, United States and each State, 1441
United States, 18082
white and nonwhite infants in major U.S. cities, 4536
neonatal respiratory adaptation, conference, proceedings, 18062
play games with baby, guide for parents, 6770
sudden death, conference on causes, proceedings, 13094
talk with baby, guide for parents, 6773
weight at birth and survival of newborn, by age of mother, etc., U.S., 1442–43
Infection:
administration of polyvinylpyrrolidone for prolongation of effect of monomycin in infectious foci, USSR study, 6124
experimental infection of gamasid ticks with causative agent of anthrax, USSR study, 13454
mixed, with aerosol of viruses of ornithosis and influenza, USSR study, 12182
shortleaf pine seedlings by Phytophthora cinnamomi, testing resistance, 5986
Infectious diseases, *see* Contagion and contagious diseases.
Infectious pancreatic necrosis (IPN) of Salmonid fishes, 8940
Inflammable materials:
flammability characteristics of—
halogenated hydrocarbons, 9371
trichloroethylene, 9385
flammability in zero-gravity environment, 17932
flammability properties of hydrocarbon fuels, 5071
household use, regulate, labeling, etc., law, text, 10549
Inflatable holding fixture permits X-rays to be taken of inner weld areas, 13762
Inflation (finance):
and price indexes, 11596
curbing inflation and preserving economy, message from the President, 17168
President's anti-inflation program (remarks), 16887
relieving inflationary pressures (remarks), 17799
suspensions of investment credit and accelerated depreciation—
hearing, 17400
reports, 15932, 17341, 17537
Influenza:
A2 and B, outbreaks in 1962, efficacy of live vaccine, USSR study, 4666
mixed infection with aerosol of viruses of ornithosis and influenza, USSR study, 12182
USSR 1965 epidemic, etiology, 12103
Influenza vaccine, epidemiological efficacy of live influenza vaccine during A2 and B influenza outbreaks in 1962, USSR study, 4666
Information, *see* Public information.
Information bulletins, *see* names of departments, etc., issuing bulletins.
Information centers, *see* Information services.
Information Office, Agriculture Dept.:
appropriations, 1967, hearings, 8648
11787
congressional list (series), 849, 6054
Information series-SW, 7999
Information services:
agricultural information staffs in State land-grant colleges and universities, 5926
Clearinghouse for Federal Scientific and Technical Information, industrial referral service, 1764
combat information centers, color cathode ray tube displays, 6552
Educational Research Information Center, advance information, 5872
information and data centers of National Bureau of Standards, 1292
information resources in U.S., directory, water, 16544
Post Office Department, IS series, 1395
scientific and technical information analysis center, managers, directors, and professional analysts, Ad-Hoc forum—
directory, 12677
proceedings, 12676
Information specialists, agricultural information staffs in State land-grant colleges and universities, 5926
Information storage and retrieval systems:
aerial photography in unified system, 11201
cooperation, convertibility, and compatibility, literature review, 11091
documentation sponsored by NSF, price list, 7912
ERIC, how to put two and a half tons of research into one handy little box, 8845
file organization for large chemical system, 9554
foreign developments, translations, 2154, 2988
human factors research in command systems, 16967
information computer center machine building plant, USSR study, 6190
keypunch controls for string-punching of statistical data, 5016
management of data processing equipment, Air Force manual, 8187
national standard reference data system, information handling, 12387
need for, and development of interagency management information systems, presentation, 15561
processing, electroluminescent vs teletype readability of weather messages, study, 6801
sequential decision making task, timeliness and accuracy, 8274
statistical association methods for mechanized documentation, symposium, 7913
STORET II, for open water and land areas, 17671
Information theory:
aspects, and its relation to living organisms, 972
increasing transmission rate of discrete information, USSR study, 12106
problems of information transmission, USSR periodical, translation, 10751
requirements for guidance and control systems, 10937
simplified circuit corrects faults in parallel binary information channels, 12303
simulation of information theory in neurons, USSR study, 2205
space communications, information transfer systems, 9530
transmission of discrete information in phase-keyed channels, USSR study, 17762
USSR all-Union scientific session devoted to Radio Day, 13562

Information theory in psychology:
time constant involved in attention and neural information processing, 9402
uncertainty, concept as applied in psychological research, 3786
Infrared lamps, brooding chicks, 41
Infrared photography:
image converter tube for middle infrared with photoconductive layer and photoemissive layer juxtaposed, the Serval, 13505
meteorological interpretation of Nimbus high resolution infrared (HRIR) data, 6328
Infrared rays:
Apollo acquisition and tracking system, 16649
flux averaging devices, 2455
gas-fired chick brooders, radiant energy distribution, 9777
infrared radiation used by high-speed furnace for controlled brazing, 12310
infrared source improvised from flashlight, 7768
satellite data, use for determination of sea surface temperature, 9440
wedge immersed thermistor bolometer measures infrared radiation, 1206
Infrared spectrophotometry *see* Spectrophotometry.
Infrared spectroscopy, *see* Spectroscopy.
Infrared spectrum, *see* Spectra.
Infrared television used to detect hydrogen fires, 13798
Ingebo, Robert D., atomization of ethanol jets in combustor with oscillatory combustion-gas flow, 15147
Ingestion, radionuclides, soluble, dose to various body organs, 15532
Inglis, Anthony, bait shrimp industry of Gulf of Mexico, 13344
Ingots, *see* names of metals.
Ingraham, Samuel C., II, radioisotope facilities in general hospital, 6583
Inhalation, radionuclides, soluble, dose to various body organs, 15532
Inheritance and succession, inheritance laws, digest, 11307
Inheritance and transfer tax:
career opportunities, estate tax examiner, 4561
disclaimers, effect on allowance of marital deduction for estate tax purposes—law, 17118
reports, 10140, 16129
estate and gift tax liability on savings bonds, some legal aspects, 2549
estate tax provisions of internal revenue code of 1939, amend—law, 5584
reports, 5636, 5755
Federal estate and gift taxation, guide, 12057
IRS looseleaf regulations system, 3167
returns, 1962 statistics of income, 4570
Inheritance comes to P.S. 83, 10425
Inhibitors:
corrosion, use of hot-finished mild steel coupons for testing, 2348
thermal degradation processes in polysiloxanes and stabilization by cerium inhibitor, 16759
Injections, propellant injection velocity, effect on screech in 20,000-pound hydrogen-oxygen rocket engine, 7884
Injectors:
dust particle injector for hypervelocity accelerators provides high charge-to-mass ratio, 13782
pressurant gas, evaluation during pressurized discharge of liquid hydrogen, 11077
Injuries:
accidental, control programs in local health department, guide to development, 1419
Injuries—Continued
acute conditions, incidence and associated disability, July 1964–June 1965, in U.S., 6587
alcohol and accidental injury, conference proceedings, 10653
coal mines, monthly report, 2753
coal mining, analysis of mine safety factors, etc., 4756
employment injury benefits, ILO convention, text, etc., 17159
firearms, etc., mandatory reporting in D.C. provide, reports, 17287
fuel industries, minerals yearbook chapter, 1109
head and face injury potential of airline seats during crash decelerations, 14243
mineral industries, minerals yearbook chapter, 2318
oil and gas industry, 15004
plastics in traumatology and orthopedics, USSR study, 9075
rates in manufacturing industries, 3066
spinal cord, clinical conference, 1964, proceedings, 6687
spread of injury in somatic muscle fibers, USSR study, 14932
work injuries and work injury rates in street and highway department industry, 2295
work injuries to minors, report, 16518
young farmworkers', examples, etc., 14967
see also Accidents—Employers' liability and workmen's compensation—Motor vehicle accidents—Radiation injuries.
Inland waterways:
rules concerning sailing vessels, etc.—hearing, 10335
report, 17313
user act of 1966, proposed legislation, technical explanation, 7168
waterborne commerce, 676
Inlets, *see* Air inlets (aircraft).
Inman, Robert M., heat transfer to liquid-metal flow in round tube, etc., in fluid stream, 12353
Inner Mongolia, *see* Mongolia.
Inner radiation belt, *see* Van Allen radiation belts.
Inner tubes:
excise tax, impose at manufacturer-owned retail outlet, hearing, 16184
Federal item identification guides for supply cataloging, supplements, 2932
Innovation and reform in warfare, 14166
Inorganic compounds:
current industrial reports, 2817
industrial inorganic chemicals, census of manufactures, 1963, industry statistics, 8333
polymers, adhesive restoration dental materials, literature survey, 2498
salts, high temperature properties and decomposition, 17940
Inorganic fibers, *see* Fibers.
INOT, *see* Institute of Scientific Organization of Labor, USSR.
Inouye, F. T., properties of large 7079 aluminum alloy forgings in cryogenic environment, 12271
Inouye, Mamoru, numerical solution for blunt axisymmetric bodies in supersonic spherical source flow, 7891
Insect attractants, insect control, use of sex attractants, population models to test theoretical effects, 9815
Insect pests, *see* Insects.
Insecticides:
concentrates, low-volume mist sprayer for applying from ground equipment, 9772
insect control on crops, livestock, etc., suggested guide, 9814
organophosphorus, poisoning, arterial pressure conditions at time, USSR study, 17775

Insecticides—Continued
use in medical practice, USSR studies, 12188, 16418
see also Malathion — Pesticides — *also* names of insecticides.
Insects:
control—
crops, livestock, etc., insecticides, suggested guide, 9814
dry beans and peas in storage, 6740
protecting, home-cured meat, 40
sugar beets, 9817
use of sex attractants, population models to test theoretical effects, 9815
USSR study, 10726
cooperative economic insect reports, 2796, 5273
damage to wheat in small bins, malathion, synergized pyrethrum and diatomaceous earth as protectants, errata, 6754
deterioration of windthrown timber caused in northern California, 2077
evaluation of 4 inert dusts for protection against insect attack on—
shelled corn in Georgia, 14109
stored shell corn in Illinois, 14108
stored wheat in Kansas, 14110
forest, conditions in—
Pacific Northwest, 10555
United States, 16321
individual eggs from egg-mass-depositing insect, obtaining, 14709
intercepted plant pests, list, 6716
outbreaks in Oregon and Washington, 787
pest control, microbiological methods, USSR study, 17754
pests, deciduous fruits in West, 14130
publications, price list, 5098
quarantine notices under Plant quarantine act, P.P.C. series, 3305
remove pest hazards, restrict or prohibit plant imports, by quarantine, 9832
Insignia, aircraft, recognition identification guide, 13901
Inspection (industrial):
safety road-checks, Interstate Commerce Commission, 1964–65 data, 16386
surfactant for dye-penetrant inspection is insensitive to liquid oxygen, 9461
see also names of articles, etc., inspected.
Inspection (military):
technical inspection and control group at field airbase, USSR study, 12167
Inspection services:
international airports, Federal facilities, 13387
ports of entry, costs—
hearings, 10334
reports, 14460
Inspector General, Agriculture Dept., appropriations, 1967, hearings, 8648, 11787
Inspectors, poultry, handbook, 13240
see also types of inspectors.
Inspectors (manufacturing):
employment outlook, 9237
Installations (military):
American, and NATO bases in France, on-site inspection, subcommittee report, 15961
arctic and subarctic construction, technical manual—
general provisions, 9908
emergency construction, 14227
site selection and development, 14226, 14228
Army—
continental U.S., lists, 6837, 16960
facilities, basic criteria and construction standards, technical manual, 14222
base closures and reductions—
hearings, 8656
subcommitee report, 7123
community centers, site planning, Army technical manual, 1648
construction, agreement with Saudi Arabia, 5158
Installations (military)—Continued
construction appropriations, 1966, supplemental—
hearings, 5797, 7117
law, 7031
reports, 5666, 5757, 7079, 7083
construction appropriations, 1967—
hearings, 16172
reports, 15908, 17311, 17513
construction authorization, 1966 report, 17199
hearings, 11642, 11644, 11789, 17358
law, 15745
reports, 10306, 12967, 15881
construction, deferment, hearing, 8655
construction, deferral of projects authorized and funded for 1966, report, 7122
continental U.S., transportation services, Army technical manuals, 9911, 15521
defense base act, 13285
defense scrap yard handbook, 14516
DEWline ice cap stations, Greenland, 1963, performance study, 14211
dining facilities for enlisted personnel, technical manual, 14225
disposal of sewage and industrial wastes, report, 12913
military fields, instrument approach procedure charts, 3196
naval, relief of civilian employees, erroneously in receipt of wages, law, 7034
naval shore facilities, definitive designs, 1567–68
productive civilian uses of former Defense Department installations, 4260
roads, walks, storage areas, geometric design, etc., Army technical manual, 8263
site planning, general, Army technical manual, 6844, 15516
thin-shell construction, Army technical manual, 1651
Walter Reed Army Medical Center, construction authorization, report, 17253
Installment credit:
commercial banks, holdings, monthly report, 2792
consumer credit—
consumer finance companies, 2791
monthly release, 2790
require lenders to state full cost of credit, message from the President, 7068
Institute for Telecommunication Sciences and Aeronomy, *see* Telecommunication Sciences and Aeronomy Institute.
Institute of Atomic Physics, Rumania, nuclear installation and computerized weather forecasting, 14841
Institute of Electrical and Electronics Engineers, Inc., short-term frequency stability, IEEE–NASA symposium on definition and measurement, Nov. 23–24, 1964, proceedings, 1196
Institute of Reconstructive Plastic Surgery, New York University Medical Center, facial disfigurement, rehabilitation problem, conference report, 9758
Institute of Scientific Organization of Labor, USSR, activities, 9124
Institutions:
America's children and youth, demographic analysis, 6943
criticism of institutes, USSR, 7574
for the aged and chronically ill, United States, utilization, Apr.-June 1963, statistics, 1440, 6589
higher education, NIH obligations, 12477–478
meat purchase specifications approved by USDA, fresh pork, 7242
rights granted to institutions of higher learning, suggested expansion, USSR study, 14924
States funds for research, 5836
see also Child welfare institutions.

239-221—67—No. 863——23

Instruction, *see* Education—Programmed instruction—Teaching.
Instruction reports, Waterways Experiment Station, 677, 1990
Instructions for representative payee, 1465
Instructions to travelers on use of foreign currencies, 16987
Instructors, *see* Air Force—Military Academy, West Point—Teachers.
Instructor's guide IG series, 8384, 15624
Instructors' journal, 3067
Instrument approach procedure charts, *see* Maps and charts.
Instrument flight rules:
  aviation, air traffic patterns, 10454
  enroute air traffic survey, peak day, 10455
  IFR altitudes, Federal aviation regulations, 14607
Instrument flying:
  instructor examination guides, 2048, 16269
  techniques and procedures, Air Force manual, 6786
Instrument panels, *see* Panels and paneling.
Instrument repairmen, *see* Instrumentmen.
Instrumentation:
  and principles for measurement of work-function variations by electron-beam scanning, 2424
  biomedical, use of anchor button to secure lead wires, 99
  developments, symposium, 16810
  journal of research, National Bureau of Standards, 3102, 16713
  primary and secondary excitation of low-energy spectral lines, 1161
  radiochemical analysis, 5013
  systems, minimum permissible leakage resistance established, 15127
  unified digital instrumentation and control system for nuclear power plants, feasibility study, 15536
Instrumentmen, repairmen, employment outlook, 9289
Instruments:
  and laboratory equipment, Federal item identification guides for supply cataloging, supplements, 2936
  and related products, census of manufactures, 1963, manufacturing plants, location, 15574
  automatic instruments and equipment, production, USSR study, 14928
  building, USSR—
    engineering psychology, problems, 1st Leningrad conference, 6116
    periodical, 3094
    progress, 16393
  calculates moments of inertia of complex plane figures, 13742
  combination and miscellaneous, industrial plant equipment handbook, 16208
  design, application of biological mechanisms, summary report on review, 7737
  detection of adenosinetriphosphate, design and fabrication, 7733
  determination of carbon below 50 parts per million in metals, calibrate by use of carbon dioxide, 7868
  engineering, laboratory, etc., commodity transportation survey, shipper series, 5453
  measuring and controlling, liquid and gas, pressure temperature, humidity and mechanical motion, industrial plant equipment handbook, 10387
  package, energy requirement for placing under ice, 8236
  scientific, industrial and technical, market in France, 1773
  selected and related products, 1964 annual data, current industrial reports, 8356
  space measurements survey, 13727
  transmits vanishing point to illustration point, 13759
  see also names and types of instruments.
Insular possessions, *see* Outlying possessions.
Insulating board, *see* Corkboard.
Insulation:
  air-cured ceramic coating insulates against high heat fluxes, 1232
  aluminized fiber glass insulation conforms to curved surfaces, 4861
  blanket, complex thermal, fabrication, simplify by spray-on technique, 6379
  broiler houses in central Mississippi, field studies, 10
  cable and wire, thermoplastic, Federal standard, cancellation, 17665
  cork, nylon bit removes without damage to substrate, 9464
  cryogenic—
    propellant liquid from heat leak by propellant and its sacrificial boil off, 9508
    tanks, reduced thickness and weight, 12292
  cryostat, vacuum chamber provides improvement, 2387
  electrical insulation materials, SNAP 8 radiation effects test program, 7746
  electrically conductive fibers thermally isolate temperature sensor, 13784
  external, system for liquid-hydrogen tanks of boost vehicles, supersonic aerodynamic heating tests, 7838
  foamed-in-place, soluble undercoating facilitates removal, 1220
  glass, manufacture of cast microwire, USSR study, 13493
  outgassed boron nitride and boron nitride composite, ablative and insulating properties, 17922
  reflective insulator layers separated by bonded silica beads, 6396
  thermal—
    building construction, 8
    cryogenic transfer lines, inexpensive, 13783
    materials made of foamed refractory oxides, 13730
  workers, employment outlook, 9261
Insulators:
  adsorption of cesium, 4810
  insulator-holder protects transistors in dense electronic assemblies, 4882
Insurance:
  industry—
    impact of office automation, 4730
    investigation, hearings, 4226
  occupations, employment outlook, 9304
  operations, veterans benefits manual, 5207–8
  premiums, license and regulate finance companies in D.C.—
    law, 8479
    report, 8734
  publications, price list, 17993
  see also types of insurance.
Insurance companies:
  fidelity or surety business in D.C., amend capital stock requirements—
    law, 8475
    report, 8733
  stock, District of Columbia, regulating—
    law, 8478
    reports, 497, 8735
  see also Life insurance companies.
Insured banks, *see* Banks and banking.
Insurgency, undergrounds, human factors considerations, 16961
Integral neutron thermalization, 1677
Integral skin electrode for electrocardiography is expendable, 7775
Integrals, *see* Fresnel integrals.
Integrated telemetry—computer system, 7894
Integrating spacecraft systems, 7813
Integration, *see* Race problems.

Integration (mathematics):
integrating orbital equations of motion for use in space navigation, 16687
one-step methods applied to problems of celestial mechanics, 16708
Integrators:
electronic, for quantitative evaluation of effect of pharmacological agents on motor function of small laboratory animals, USSR study, 953
fluid amplifier digital integrator, development, 6329
use in evaluation of brain potentials, 1021
Intellect, scientists and engineers, application of cybernetics to increase effectiveness, USSR study, 9106
Intensity variations of cosmic rays, 6473
Interagency Committee on Occupational Classification, Budget Bureau, collection and classification procedures for Federal agencies, etc., progress report, 14245
Interagency Committee on Oceanography, ICO pamphlet series, 4365, 17649–650
Interagency conference on Continental Shelf research, 8862
Interagency coordination in environmental hazards (pesticides), hearings, 4223, 5813, 7214
Interagency drug coordination, report, 8759
Interagency environmental hazards coordination, pesticides and public policy, report, 13156
Interagency training programs, *see* Government officials and employees.
Interagency value engineering task force study of meteorological radiosonde systems, 5853
Interama, *see* Inter-American Cultural and Trade Center.
Inter-American Congress of Psychology, symposium, 16791
Inter-American Cultural and Trade Center:
participation by U.S., provide—
law, 5581
report, 5653
Inter-American Development Bank:
accomplishments and objectives (remarks), 9750
activities, Jan. 1–June 30, 1965, report, 11612
appropriations, 1967—
hearings, 13014, 17568
reports, 15915, 16159
foreign assistance appropriations, 1966, report, 545
participation, U.S.—
increase, report, 1823
semiannual report, 1797
role in agricultural development, hearing, 17366
Inter-American republics, *see* American republics.
Interdepartmental Committee on Children and Youth report, 6940
Interdepartmental Committee on Status of Women, report on progress in 1965 on status of women, 13426
Interdepartmental Scientific Council on Programed Instruction, USSR, interview on programed instruction with Academician A. I. Berg, Chairman, 14791
Interdisciplinary Conference on Initiation of Labor, proceedings, Dec. 15–18, 1963, Princeton, N.J., 9557
Interdiurnal variability of pressure and temperature in conterminous United States, 9767
Interest (psychology):
clustering interest profiles for classification of information topics, computer programing, 5323
Interest and usury:
compound interest tables for long-term planning in forestry, 12595
debentures, Federal intermediate credit banks, delete interest rate limitation—
law, 17109
reports, 17206, 17463
home mortgage interest rates and terms, 3043
insured banks—
maximum interest rates paid on services, regulation—
hearing, 14476
law, 15764
report, 16131
savings and time deposits, eliminate unsound competition, hearings, 11645
temporary ceilings, report, 12976
interest rates—
and mortgage credit, hearing, 14474
gold, and balance of payments (remarks), 731
Western Europe, 16280
loans to World War I veterans upon security of adjusted-service certificates, cancel unpaid interest, report, 12955
OASDI trust funds give additional interest earnings, provision of 1960 amendments, 5141
payment of interest on deposits, Federal Reserve regulation Q, 734, 11950, 14640–641, 17661
Interest equalization tax act:
extend—
legislative history of H.R. 4750, 4150
Senate amdts., summary, 1881
legislative history, 17398
termination of designation of certain countries as less developed countries, message from the President, 4069
Interest rates, *see* Interest and usury.
Interfaces:
air/water, damping of capillary waves, 6549
interfacial heat and mass transfer in pressurized liquid hydrogen tank, 6425
thermal, between thermocouple and sensed surface, compound for improving, 7777
Interference heating on swept cylinder in region of intersection with wedge at Mach number 8, 2411
Interferometers:
astrophysics use, USSR study, 4660
radio, conditions affecting resolving power, USSR study, 1036
Intergovernmental Maritime Consultative Organization, convention, amendments, report, 13088
Intergovernmental relations:
changing intergovernmental and interagency relationships in park and recreation programs (remarks), 9601
Federal system—
as seen by Federal aid officials, results of questionnaire, 8775
encouragement of greater cooperation (remarks), 11303
in poverty program, commission report, 12578
personnel act of 1966, hearings, 17581
relationship of Federal Government to municipalities, counties, and State (remarks), 8436
responsibilities and cooperation of Federal, State and local Governments (remarks), 14151
study, authorization, report, 4183
Intergovernmental Relations, Advisory Commission on, *see* Advisory Commission on Intergovernmental Relations.
Interim reports, Army Aviation Materiel Laboratories, 1634, 3813, 5342–43, 6827, 9885

Interior and Insular Affairs Committee, House:
calendar, 3119
committee prints, 8670, 11663, 13048
hearings, 517–519, 1861, 4134–36, 5695–96, 7151–52, 8671, 10247–248, 11661–662, 11812, 13041–47, 14427, 15975
investigations and studies, expenses, report, 5646
reports, 477, 483–486, 505, 1802, 1825, 1831, 4112–16, 5657, 5672, 7085, 7087, 7097, 8546, 8550–51, 8595, 8599, 8627, 10123, 10138–139, 10142–143, 10177–179, 10183–184, 11623, 12862, 12864–865, 12931–934, 12940, 12948, 12951, 12980–982, 12990, 14392–393, 14396–397, 15788, 15826, 15857, 15869, 15875, 15887, 15892–894, 15911, 15922, 15933, 17211–212, 17215, 17227, 17235, 17240, 17249

Interior and Insular Affairs Committee, Senate:
calendar, 3138
committee print, 7218
hearings, 579, 1941, 5815, 7217, 11810–811, 11813–814, 13215–220, 14486–491, 16189, 17583–585
investigations and studies, authorization, report, 4185
reports, 557, 5769, 5775, 8730, 10278, 10308–313, 10316–317, 10321, 11700, 11738–743, 11745–746, 11767, 13092–93, 13131, 13136–137, 13141, 13147–148, 13151, 13163, 13166–167, 13178–179, 13184, 16013, 16028, 16068, 16092, 16111–113, 16119–120, 16124–125, 16138, 16145–146, 17415–417, 17465, 17483, 17490–491, 17495, 17501–507, 17514–515, 17517–519, 17530, 17542, 17548

Interior decorating, bibliograph, 2559

Interior decorators and designers, employment outlook, 9223

Interior Department:
Alaska RR. budget presentation of capital expenditures, GAO report, 10618
appropriations, 1966—
budget amendments, 8691
public works, law, 401
appropriations, 1967—
amendments, 8689, 15784
hearings, 7113, 8763
law, 10086
reports, 8592, 10160, 10281
Assistant Secretary, nomination of Frank C. DiLuzio, hearing, 14487
code of Federal regulations, 10498
Columbia River Federal Power System, financial statements, GAO report, 16342
conservation, protection, and propagation of endangered species of fish and wildlife, etc., provide, consolidate authorities relating to administration hearings, 7206
cooperative water resources, research and training, 1965 report, 6057
decisions, 2112, 3071, 13428
develop production of fish protein concentrate—
hearings, 16180, 17390
reports, 15941, 16080, 17325
investigate feasibility of water resource development proposals—
hearings, 11810
law, 15739
reports, 13151, 17214
Library, list of accessions, 3150
Missouri River Basin, progress, quarterly report, 3422
National Advisory Board Council, proceedings, 26th annual meeting, 10887
nuclear power-desalting project in cooperation with AEC, authorize—
hearing, 17150
report, 17497

Interior Department—Continued
press releases, 3378
program for conservation, etc., of anadromous fish, in cooperation with several States, authorize, law, 406
Project EROS, program to utilize space-acquired data for natural and human resource management, 16358
research contracts, authority to enter into, report, 17240
saline water research and development progress reports, 851–853, 2114, 4550–58, 6063–67, 7512–16, 9036–44, 10671–678, 12048–54, 13435, 14770–774, 16372–378, 17737–740
study control of jellyfish and other such pests—
hearings, 14433
report, 17556
temporary employees, payment of medical expenses, report, 5775
transfer water pollution control functions to—
hearings, 8669, 10350
message from the President, 5613
report, 8639
water pollution, playing vital role against (remarks), 13434
weather modification research, authorize, hearings, 13220

Interlocking directorates, communications carriers, applications, FCC rules and regulations, 2927

Intermediate credit banks, *see* Federal intermediate credit banks.

Intermountain Forest and Range Experiment Station, 1965 publications, 8953

Intermountain region, prescribed fire planning, 14713

Internal combustion engines, *see* Engines.

Internal friction, metals and alloys, USSR study, 16492

Internal revenue:
code of Federal regulations, 5945, 5950–51, 7396–97, 7411–12, 8909–12, 10492–493, 11937
code of 1939, amend—
laws, 5580, 5584
reports, 4169, 5636, 5755
code of 1954—
cross-references, 1879
Federal unemployment tax act, amend, 533
tax exemption, pension trust procedures and guides for qualification, 14779
code of 1954, amend, 4217
hearings, 5714, 7167, 14480, 16182, 16184
laws, 5578, 5580, 5590, 8460, 17118
message from the President, 17162
reports, 4167, 4169, 5649, 5658, 5768, 7176, 8618, 8728, 10140, 10174, 12908, 13162, 15936, 16129, 17304, 17307, 17334, 17521, 17523
subchap. S. of chap. 1, law, 8465
code of 1958, amend, reports, 17221, 17524
decisions, weekly report, 3623
Federal receipts for 1966 and 1967, estimates, 11694
internal revenue bulletin, 3072
semiannual cumulative, 856, 12058
procedure and administration, IRS loose-leaf regulation system, 862, 4566, 9047–48, 16381
refunds and credits of taxes, report, 5606
see also Taxation—*also* names of certain taxes, e.g. Income tax.

Internal Revenue Service:
Alcohol and Tobacco Tax Division, what you should know about it, 16382

Internal Revenue Service—Continued
career opportunities, 4559
computer trainee, 4560
estate tax examiners, 4561
programmer, 4567
revenue agents, professional accounting, 4568
revenue officer, 4569
tax technician, 4571
circulars, 854–855, 2115–16
for the man who wants a tough, hard job, data processing management training program, 2118
income tax returns, file directly to service centers—
report, 17226
written statements by individuals and organizations, 17401
looseleaf regulations system—
employment tax, 2121, 3168, 6070, 7519, 9046, 10680, 14777
estate and gift tax, 3167
excise taxes, 860–861, 3169, 4564–65, 6071, 10681
income tax, 858–859, 2119–20, 3166, 4562–63, 6069, 7517–18, 10679, 13436, 14776, 17742–743
procedure and administration, 862, 3170, 4566, 9047–48, 16381
Office of Chief Counsel, legal careers in Federal taxation, 857, 17741
opportunities, administrative intern program, 2122
press releases, 3379
publications containing helpful tax information, list, 5095
report 1965—
departmental edition, 9045
document edition, 8489
self-employment tax payment and collection practices, GAO review, 6025
travel, entertainment and gift expenses, rules for deducting from income tax, 2123
Internal Revenue Taxation Joint Committee:
cross-references within IRC, 1879
digest of statements on act to remove tax barriers to foreign investment in United States, 1878
estimates of Federal receipts, 11694
excise tax reduction act of 1965, summary, 1880
income tax treatment of treble damage payments, staff study, 535
interest equalization tax extension act of 1965, Senate amdts., summary, 1881
tax adjustment act of 1966—
Senate amendments, 8687
summary, 7170
tax treatment of income from straddles, staff report, 4153
Internal security, *see* National security.
International Agency for Research on Cancer, statute establishing, 1504
International agreements:
atomic energy, cooperation, hearings, 1790
in force, list, 6655
treaties and other international agreements, 12540, 14033
see also subjects.
International agricultural development, monthly newsletter to cooperators, 3073
International Agricultural Development Service:
appropriations, 1967, hearings, 8648, 11787
year of progress, 1965 annual summary, 2130
International Association of Governmental Labor Officials, 1965 convention proceedings, 10846
International Association of Machinists, AFL–CIO, emergency board report, 13284
International Atomic Energy Agency:
application of safeguards to cooperation agreement with—
Austria, 15345
Greece, 8081
Portugal, 6645
atomic energy safeguards, application for peaceful uses, agreements, 2585–87, 2589
desalting, agreement, 2582
General Conference, progress of first 10 years (remarks), 15543
U.S. participation—
annual reports, 17156, 17158
report, 1964—
departmental edition, 8066
document edition, 7054
International Bank for Reconstruction and Development:
activities, Jan. 1–June 30, 1965, report, 11612
articles of agreement, amendment, 8072
increase in assistance to private enterprise, proposal, report, 7053
participation of U.S., semiannual report, 1797
International bibliography on crime and delinquency (periodical), 3074
International boundary studies, 2579–80, 5154, 6635, 8062–65, 9723, 11255–258, 15342
International Brotherhood of Teamsters, Chauffeurs, Warehousemen, and Helpers of America, teamsters local 815, union welfare-pension funds diversion, report, 13138
International Center for Settlement of Investment Disputes, establishment, convention, 7173, 10279
International claims settlement act, *see* Claims.
International commerce (periodical), 3076
International Commerce Bureau:
international business, publications, checklists, 4577, 14782
press releases, 3380
International Committee of Red Cross, contributions by U.S., report, 1835
International Conference for Eighth Revision of International Classification of Diseases, United States delegation report, 18079
International Conference on Perinatal and Infant Mortality Problem of United States, report, 12486
International Congress of Pure and Applied Chemistry, scientific papers, abstracts, 8281
International Congress on Home Help Services, proceedings, 15427
International Convention for Conservation of Atlantic Tunas, text, 16000
International Convention for Prevention of Pollution of Sea by Oil:
amendments, implementing—
law, 15730
reports, 12911, 14464
International Convention on Loan Lines:
report, 16002
text, 1966 regulations, 14452
International cooperation:
and economic advance of women (remarks), 1554
assignment of the century, 5150
atomic energy, peaceful uses, 9930
breaking sound barrier (address), 1076
economic, appeal for renewal on grand scale, twenty years after, 14377
economic cooperation series, 6628
economic, 1966, year of decision and of opportunity (remarks), 11300
free world economic cooperation, strengthening, 1793
obligations and opportunities (remarks), 11302

International cooperation—Continued
social welfare and social development activities, contribution of Welfare Administration—
French edition, 16903
Spanish edition, 16902
technological progress (address), 8426
International Cooperation, National Citizens' Commission on, *see* National Citizens' Commission on International Cooperation.
International Cooperation, White House Conference on, *see* White House Conference on International Cooperation.
International Cooperation Year:
background paper, 6636
international cooperation, assignment of the century, 5150
observance, expressing sense of Congress, report, 11655
space, national challenge, 1192
International Cotton Institute, agreement, articles, 12525
International Council for Exploration of Sea, convention, 13079
International Development Agency:
AID programs, we welcome others to their ranks, 13440
biographic register, 12520
expedited signing of agreements under title 1 of agricultural trade development and assistance act of 1954, GAO review, 8995
field staff, Foreign Service list, 2992
foreign affairs personnel, transfer to unified system, hearings, 11805
investment guaranties, specific risk, issued since beginning of program, 2814
loan program financial statements, 1962–64, audit, GAO report, 6006
loans, etc., report, 1797
ocean transportation costs for surplus agricultural commodities donated under titles 2 and 3, agricultural trade development and assistance act of 1954, GAO report, 7472
operations report, 3298
Partners of the Alliance, program, 11653
personnel supporting social revolution in Viet-Nam, 10691
press releases, 3381
principles of foreign economic assistance, 9054
procurement regulations, 2132
proposed economic assistance programs, 1967, summary presentation to Congress, 9055
selling services for international development, 3868
specific risk investment guaranty handbook, 2133
technical and economic assistance to cooperative enterprises under foreign assistance act of 1961, staff report, 13024
telephone directories, 1493, 11260, 15344
United States activities in Viet Nam, internal audits and inspections, GAO report, 13385
use of dollars rather than foreign currencies to pay U.S. expenses in Korea, GAO report, 812
use of excess property in Latin America, report, 8628
International Development Association:
activities, Jan. 1–June 30, 1965, report, 11612
appropriations, 1967—
hearings, 13014, 17568
reports, 15915, 16159
foreign assistance appropriations, 1966, report, 545
participation of U.S. semiannual report, 1797
International education, *see* Education.
International Educational and Cultural Affairs, Advisory Commission on, *see* Advisory Commission on International Educational and Cultural Affairs.
International exchanges:
binational educational exchange program, obtaining contributions, GAO report, 8983
exchange scholars, 785
international educational and cultural exchange, 8122, 11335
teacher development program, 10426
teacher exchange program, 14558
see also Education—Government publications—*also* subjects.
International Executive Service Corps, executives march ahead, Ghana progress, 14781
International fairs, *see* Fairs.
International Finance Corporation:
activities, Jan. 1–June 30, 1965, report, 11612
assistance to private enterprise, proposal, report, 7053
participation of U.S., semiannual report, 1797
International Geophysical Year, 1957–58:
aerometeorological research in Antarctica during IGY, USSR study, 982
climatology of noctilucent clouds according to observations performed during IGY, 2445
International Human Rights Year:
U.S. observance—
hearings, 14421
reports, 17237, 17529
International Hydrological Decade, USSR, program activities, 9170
International Indian Ocean Expedition, 1964:
cruises, track charts, 15232
survey ship, USC&GSS Pioneer—
cruise narrative and scientific results, 11503
oceanographic stations, BT observations, and bottom samples, data report, 15636
International Institute for Unification of Private Law, agreement with Italy, 11270
International labor (periodical), 3078
International Labor Conference:
active leadership in human resources development (address), 6253
48th, conventions adopted and recommendations, 17159
employment policy, 13078, 17167
International Labor Organization:
conference in Geneva, appoint delegates to attend, report, 12910
conventions adopted and recommendations, 17159
employment policy, 17167
International law:
digest, 2575
legality of U.S. participation in defense of Viet-Nam against armed attack, 8059
studies, outer space, 9599
International Law, Private, Hague Conference on, *see* Hague Conference on Private International law.
International Literacy Day:
designate Sept. 8, 1966—
law, 15728
reports, 12956, 13187
International Load Lines, *see* International Convention on Load Lines.
International Monetary and Financial Problems, National Advisory Council on, *see* National Advisory Council on International Monetary and Financial Problems.
International Monetary Fund:
activities, Jan. 1–June 30, 1965, report, 11612
participation of U.S., semiannual report, 1797
steps toward more rational world economic order (remarks), 16891

International negotiations on cessation of nuclear weapon tests, Sept. 1962–Sept. 1965, review, 11389
International notams, notice to airmen service, 3079
International organization and conference series, 1491, 6637, 8066, 9724, 11259, 18120
International organizations:
immunities act, amend rel. to European Space Research Organization—
law, 5579
report, 4168
multilateral and regional, educational and cultural activities, 18121
private, nonprofit American, overseas program, survey of activities, report, print additional copies, report, 17195
U.S. missions, field staffs, Foreign Service list, 2992
International Pacific Halibut Commission:
offices, authorize construction—
hearings, 17390
report, 488
International Peace Garden, gifts, duty-free entry, reports, 16130, 17332
International Petroleum Exposition, participation by States and foreign nations, authorize invitation, report, 5753
International Philatelic Exhibition, *see* Sixth International Philatelic Exhibition.
International policy, *see* International relations.
International postal service:
directory of international mail, 13926 changes, 2859
international mail, general information, 9616
International programs of Department of Housing and Urban Development, 840
International Quiet Sun Year, 1964–65, ionosphere regions D and E, investigation, 6339
International relations:
American policy in Vietnam, comments by Patriarchy of Russian Orthodox Church, USSR study, 10814
Atlantic alliance—
Allied comment, 4219
basic issues, 5812
treaty and related agreements, texts, 4220
behavioral sciences and national security, reports, 513, 4090
code of Federal regulations, 7394
Communist countries, why U.S. treatment differs (address), 2578
computer and foreign affairs, 18114
cultural affairs and foreign relations, Air Force Academy assembly, final report, 14165
education for world responsibility, excerpts from addresses at National Foreign Policy Conference for Educators, 16855
era of educational and cultural relations (lecture), 12524
Europe today, study mission report, 10342
for commanders, this changing world, 108
foreign affairs (address), 5152
foreign affairs research, Government resources available, directory, 6633
foreign policy briefs, 2991
foreign policy of U.S.—
American foreign policy, 1962 current documents, 12514
investigations and studies, authorization, report, 4179
mainland China, hearings, 8773
print additional copies, reports, 10214, 10290
State Department bulletin, 2849
foreign relations of U.S. diplomatic papers, Europe, 1944—
departmental edition, 11254
document edition, 10096
International relations—Continued
general foreign policy series, 2577–78, 5150–52, 6631, 12523, 14030, 16855, 18119
how foreign policy is made, erratum, 2577
Hungarian Academy of Sciences, resolution, 13547
interdepartmental activities overseas, coordination by Secretary of State, 8779
international information and cultural series, 1490, 12524
international monetary arrangements (statement), 14053
Israel, position and policy, 9177
Japan-U.S. institutional relationships, building for future (remarks), 12200
Latin America, United States relations, regional and other documents, 5692
legislation on foreign relations, collection, 10343
multilateral and regional organizations engaged in educational and cultural activities, 18121
Negro in international affairs, prospects for future (address), 7643
nuclear weapons tests, international negotiations on cessation, Sept. 1962–Sept. 1965, review, 11389
off dead center, some proposals to strengthen free world economic cooperation, 1793
psychological aspects, hearing, 13210
United States and Communist China (address), 8057
United States and Western Europe, 1489
United States policy towards Asia—
hearings, 71444
report, 14387
print as House document, reports, 13000, 16099
report of subcommittee, 10244
statement, 11252
United States policy toward Europe hearings, 16186
United States-South African, hearings, 8668, 11657, 13038, 15969
print additional copies, report, 13001
USSR international economic relations, translations, 3670
Vietnam, shipping policy review, hearings, 7155, 10255
winning the cold war, U.S. ideological offensive—
hearings, 513, 4090
report, print additional copies, report, 17195
see also Alliances.
International science notes (periodical), 3081
International seminar on social aspects of urban development, 2624
International Shoe Co., wage chronology, 1945–66, 13608
International Statistical Programs Office, series ISPO 1, 3937–38, 6937, 15596, 17012
International sugar agreement of 1958, protocol for prolongation, 5156
International Symposium on Genes and Chromosomes, Structure and Functions, proceedings, 5030
International Systems Research, Center for, *see* Center for International Systems Research.
International teacher development program, 10426
International trade, *see* Commerce.
International Whaling Commission, convention, amendments to schedule, 8082
International wheat agreement, extend, protocol, 13070, 13077, 16868
International Year for Human Rights, *see* International Human Rights Year.
International Year of the Quiet Sun, 1964–65, ionosphere regions D and E, investigation, errata, 9391
Interns, *see* Physicians.

Interoceanic Canal Study Commission, *see* Atlantic-Pacific Interoceanic Canal Study Commission.
Interparliamentary Group, Canada-United States, *see* Canada-United States Interparliamentary Group.
Interparliamentary Group, Mexico-United States, *see* Mexico-United States Interparliamentary Group.
Interplanetary dust, analysis of F-corona according to Mie theory, 9437
Interplanetary flight, *see* Astronautics.
Interplanetary missions, *see* Planets.
Interplanetary monitoring platform:
IMP–I–Explorer XVIII, flight report, 7870
IMP–I spacecraft magnetic test program, 7885
IMP–II Explorer XXI, flight report, 11048
spacecraft performance, computer analysis, 7860
Interplanetary space, *see* Outer space.
Interplanetary vehicles, *see* Spacecraft.
Interpolation path controllers, digital higher order, 15182
Interpolation, scale facilities reading of graphs, 13738
Interpretation of resistivity data, 10644
Interpretative bulletins, Wage and Hour and Public Contracts Divisions, 5221, 6694, 9761–62, 11310–312, 16899, 18142
Interpreting and translating, *see* Translating and interpreting.
Interstage adapter panel flutter on Atlas-Centaur AC–2, AC–3 and AC–4 vehicles, 1240
Interstate agreements:
Arizona-California boundary compact, consent of Congress—
law, 15714
report, 13125
bus taxation proration, consent of Congress—
Connecticut, Rhode Island, Vermont, law, 414
Massachusetts, reports, 8563, 14453, 17347
Hudson River Basin compact—
law, 15772
reports, 15893, 17490
Missouri-Kansas compact on public transit for Kansas City area, approval—
law, 15766
reports, 13159, 17223
personnel training, authorize compacts, hearings, 17581
Upper Niobrara River compact, approving, report, 16092
Washington Metropolitan Area Transit Authority compact, approval—
hearings, 15983
message from the President, 15783
reports, 15891, 16107
Interstate and Foreign Commerce Committee, House:
activities, 89th Congress, 1st session, report, 4081
calendar, 3120
committee prints, 13049–50
hearings, 1862, 5697–98, 7153, 10249–252, 11664–667, 14428, 15976–982, 17382–387
investigations and studies, expenses, report, 4105
reports, 1826, 1839, 4081–82, 5678, 7084, 10225, 11622, 11629, 12907, 12927, 12975, 15921, 15928, 15940, 15942–947, 17255–256, 17268–269, 17302–303, 17308
Interstate carriers, *see* Carriers.
Interstate commerce, *see* Commerce.
Interstate commerce act, *see* Carriers—Railroads.
Interstate Commerce Commission:
appropriations, 1967, hearings, 8651, 13193
decisions (bound reports), 2134–35, 4584, 6089, 7539, 10696, 12063–67, 13441
Interstate Commerce Commission—Con.
decisions (separates)—
finance, 3082
motor carrier, 3083
motor carrier finance, 3084
traffic, 3085
decisions, consolidated index-digest, reports involving motor carrier operating rights, 867
nomination of—
Deason, Willard, hearings, 4215
Webb, Charles A., hearings, 4215
press releases, 3382
railroad safety, operations, report, 8620
print additional copies, report, 10209
REA Express, research collaboration, staff study, 4583
regulations, modify definition of term carrier report, 1839
report, 1965—
departmental edition, 4582
document edition, 4057
rules of practice, 868–871
Section of Locomotive Inspection, 1965 report, 10694
Interstate Commission on Potomac River Basin:
appropriations, 1967—
hearings, 8650, 14472
reports, 8626, 16151
Interstate compacts, *see* Interstate agreements.
Interstate Conference on Labor Statistics, proceedings of 23d conference, 17818
Interview response on health insurance compared with insurance records, U.S., 15305
Interviewing, accuracy of information obtained in interviews on health insurance coverage, cooperative study, 15305
Intestines, cobalt-60 irradiated rabbits, sodium transport in isolated ileum, 3792
Intoxicants, *see* Liquors.
Intoxication, *see* names of poisons.
Intraspecies biologic and behavioral variability, 14193
Intrieri, Peter F., experimental stability and drag of pointed and blunted 30° half-angle cone at Mach numbers from 11.5 to 34 in air, 4939
Inventions:
chemical milling, royalties for use by Government contractors, GAO review, 7478
Federal inventions act of 1966, report, 14458
Government research, national policy, hearings, 1945
information aid for inventors, 15257
products list circular, new products development for small business, 3421
Rumanian, in fields of mining, coking, materials testing, particle accelerators, and chemistry, 10805
State expositions—
description, etc., 2452
plan for developing, 5003
Inventories:
automatic data processing equipment in Federal Government, 1689, 12689
green coffee, 3028
interstate carrier water supplies, by States and Public Health Service regions, 15285
livestock and poultry, 6659
management—
Army Map Service, Washington, D.C., Army Department, GAO report, 7475
economic order quantity, principle and applications, GSA handbook, 14740
manufacturers', current industrial reports, 3179
National Oceanographic Data Center, archived data, 7953

Inventories—Continued
plant, material received by New Crops Research Branch, 8137, 11339–340, 14115
real property—
leased to U.S. throughout world, 10630
owned by U.S. throughout world, 1965 report, 7478A
system for multiple use evaluations for forest land, 7462
turkeys, 14040
USSR, annual inventory of uninstalled equipment, revised, etc., 2203
Inventors:
Bulgarian, awards, 14951
patents and inventions, information aid, 15257
Invertebrates, *see* Mollusks.
Investigate, stop, look, says Federal Trade Commission, 11958
Investigators, wage-hour, career opportunities, 12557
see also Criminal investigators.
Investment companies:
act of 1940—
amend, hearings, 8768
regulation S–X, 18090
SEC releases, 3087
small business, investigation, hearings, 16187
small business investment act amendments of 1966—
hearings, 14477, 15963
report, 15937
small business program, review, hearings, 16179
small business, starting, 12505
application of mathematical methods in economics and effectiveness of capital investments, USSR studies, 4645
capital structures of USSR and United States, 955
catalog of investment information and opportunities, index, 6076
industry profiles, supplement, 9052
southeast Asia, supplement, 16383
collective investment funds maintained by banks, regulation, hearings, 8768
convention on settlement of investment disputes (remarks), 9753
direct investment and cooperate adjustment techniques under voluntary balance of payments program (remarks), 1769
disputes, settlement, convention, 7173, 10279
implement—
hearing, 13032
law, 15715
report, 12958
District of Columbia, legal investments for trust funds, list, 5858, 14525
foreign, in U.S., remove tax barriers, statements, summary, 1878
guaranties, agreement with—
British Honduras, 11279
Ceylon, 15347
Honduras, 15360
Singapore, 15352
Thailand, 8076
guaranties, specific risk, issued since beginning of program, AID report, 2814
international, encouragement, convention with Israel, 13073
investment advisers act, SEC releases, 3086
nonfarm mortgages, life insurance companies, 14628
opportunity information, list, machine tools and accessories, 2131
overseas, aids to business, 7529
PACAF basic bibliographies, 5322
report of Committee on Technical Cooperation and Investment, National Citizens' Commission, 1549
returns from growing red pine, estimating, 10597
Investment companies—Continued
specific risk investment guaranty handbook, 2133
suspension of investment credit, etc.—
hearing, 17400
reports, 15932, 17341, 17537
U.S. policy and foreign investment (remarks), 11531
U.S. private investment in Canada (remarks), 12790
Investors:
foreign investors tax act of 1965—
summary, 4149
written statements submitted to Ways and Means Committee, 14446
foreign investors tax act of 1966—
hearings, 7167, 14480
reports, 8618, 12908, 17521
Invitation to pharmacologists, build your career with FDA, 8947
Inyo County, Calif.:
convey land to estate of Gwilym L. Morris, etc., 17088, 17416
hydrology and mineralogy of Deep Springs Lake, 9018
Iodine, minerals yearbook chapter, 13684
Iodine isotopes:
iodine-131, measurement in bovine thyroids, 2535
radioiodine, controlled environmental tests, 15531
National Reactor Testing Station, 1965 progress report, 8284
Ion beams:
high-energy, used to accelerate hydrogen propellant along magnetic tube, of flux, 16702
mercury, pumping by liquid-nitrogen-cooled condensers, 4965
Ion exchange:
membranes—
phenomena, correlation of structure with functional properties, 10678
technology pertaining to saline water desalination, bibliography, 6066
transport properties, 4553, 17738
multicomponent, in fixed beds operated under equilibrium conditions—
constant - separation - factor systems, 12051
general properties of uniformly presaturated beds receiving feed of constant composition, 12050
Ion exchangers, synthesis, analysis, and utilization, Rumanian symposium, 9166
Ion thrustors:
high-voltage isolation device for ion-thrustor propellant feed, 13838
SERT-I, thrust measurement, 9532
Ionic conductivity of solid barium fluoride, 7865
Ionite, method applied to obtaining desalted apyrogenic water from water derived from water-mains, USSR study, 7633
Ionization:
impact, cross section of H(1s) atoms by H(1s) atoms near threshold, 2420
nonequilibrium phenomena in Apollo plasma sheath, estimates, 15077
photoionization detector, soft X-ray, 6417
transport properties of ionizing atomic hydrogen, 9506
Ionization gages:
Bayard-Alpert, effects of rubidium vapor, 15179
cold cathode, has rigid metal housing, 6367
nude fast-response cold-cathode, construction and evaluation, 4981
Ionized air, *see* Air.
Ionized atmosphere, *see* Atmosphere.
Ionized gases, *see* Gases.
Ionizing radiation:
ascorbic acid protection against inactivation of lysozyme and adolase, 1625
biochemical indices, USSR study, 6220

Ionizing radiation—Continued
brain of animal exposed in antenatal period, function and structure, USSR book review, 931
effects on—
eyes of personnel in nuclear-powered submarines, 14991
Rhesus primates exposed under laboratory conditions, 12636
ruby, 7888
exposure of rats, study of fluorescent products in urine, 8212
industrial uses, trends, 150
pulsed, effects on performance of primates, 1622
record keeping, report, 6873
see also Radiation.
Ionosondes, duty-free entry, 17191
Ionosounders, techniques, investigation, 10959
Ionosphere:
at high latitudes, investigation, 4992
D and E regions, investigation during International Quiet Sun Year, 6339, 9391
electron density and scale heights—
Alouette I observations, topside, 13726
midlatitudes, 10980
over American continents, 17890
Ionosounder techniques, investigation, 10959
ionospheric mapping by numerical methods, advances, 13868
ionospheric predictions (periodical), 3088
irregular refraction of radio waves, measuring by signals from artificial earth satellites, USSR study, 12192
layers in infrared spectral region, USSR study, 14794
parameters derived from Echo II radar returns during solar minimum conditions, 12442
range residuals in VHF radar tracking, 15169
significant achievements, 9446
simulator survey, 10950
solar flare effects observed Sept. 1960–Dec. 1962, atlas, 5018
sounding, 100 KW 2–25 Mc/s distributed amplifier for use, 7922
wave interaction experiments, numerical simulation, 1300
Ions:
capture collisions with polar molecules, semiclassical approach, 6426
highly sensitive solids mass spectrometer, uses inert-gas ion sources, 7773
ion-molecule reactions, bibliography, 13864
low density Hall current ion accelerator, 6435
membranes, selective, for desalting water, development, 16376
metallic complexes, role in reactivation of cholinesterose inhibited by organic phosphorus compounds, USSR study, 14943
pattern of selective transport in plants in relation to salinity, 7513
reusable chelating resins concentrate metal ions from highly dilute solutions, 17909
transport across microbial membranes, research, 4554
volume production in tenuous helium plasma, effects of metastable atoms, 1280, 12334
see also ions by name, e.g., Mercury.
Iowa:
climatological data, 2751
county business patterns, 1719
divorced persons, characteristics, 1960–61, 1444
electric rate book, 16274
labor laws affecting women, summary, 6699
Iowa—Continued
life tables, 18023
manufacturing plants, location by county, industry, and employment size, 1963 census, 14257
mineral industry, minerals yearbook chapter, 1126
Mississippi River and tributaries, fishery products, wholesale dealers list, 772
Polk County Soil Conservation District, farm pond bass and bluegill fishing (colored poster), 9674
precipitation data, hourly, 3045
soil survey laboratory data and descriptions, 16837
women, family and property law, summary, 11323
Ips confusus (Lec.), *see* Beetles.
IQSY, *see* International Quiet Sun Year, 1964–65.
Iran:
agricultural commodities, agreement, 6648
economy, basic data, 10026
foreign trade regulations, 4006
market for U.S. products, 7526
mineral industry, minerals yearbook chapter, 4766
oil resources, Soviet criticism of foreign exploitation, 9090
Soviet critique of Anglo-American oil interests, 17771
Irani, Meherwan C., mineral industry of Massachusetts, 1132
Iraq:
background notes, 6623
history, Soviet survey, 16500
mineral industry, minerals yearbook chapter, 2329, 15015
Iraqi Communist Party in struggle for national independence and democratic development of country, Near East study, 969
Irelan, Lola M., low-income life styles, 14078
Ireland:
background notes, 6624
labor conditions, 13636
mineral industry, minerals yearbook chapter, 4767
sailing directions, change, 12401
Iris, growing in home garden, 5290
Irizarry Guido, Pedro, *see* Guido, Pedro I.
Iron:
bremsstrahlung production by electron bombardment, 2359
chemistry of iron-rich sedimentary rocks, 4520
fluorination, kinetics, 15180
foundries—
census of manufactures, industry report, 3899
current industrial reports, 2817, 5479
heat of fusion, use of diphenyl ether calorimeter for measuring, 6315
industrial defense planning manual, 1770
industry, employment outlook, 9305
iron and steel—
mineral industry survey, annual, preliminary, 4757
minerals yearbook chapter, 1113
scrap, Arkansas, Kansas, Louisiana, Mississippi, Missouri, Oklahoma, and Texas, 9360
low-density artificial meteoroid, photographic observations, 11055
Minnesota manganiferous ores, laboratory processing techniques, 10918
ore—
census of mineral industries, 1963, industry statistics, 9950
magnetic roasting with ferrous scrap, 7716
mineral industry survey, monthly, 3089
pellets, mechanical strength at elevated temperatures, 13696
production, etc., 1965, preliminary, 4758
reducibility index, reaction interface speed, 15028

Iron—Continued
products, primary, commodity transportation survey, shipper series, 5452
scrap—
consumption problems, 11450
minerals yearbook chapter, 16561
South Dakota, resources, 6286
stain, effects on joints in concrete, 11899
see also Cast iron—Ferrous metals.
Iron carbides, nature of carbides of iron, 13673
Iron castings, *see* Castings.
Iron ores, *see* Iron.
Iron oxides:
gamma-ferric oxide and passivity of iron, 1364
mechanism of reduction with carbon monoxide, adsorption phenomena, 16577
reduction and adsorption phenomena, 4789
thermodynamic properties of Zn0-Fe203-Fe304 system at elevated temperatures, relation to—
spinel structure, 9376
zinc concentrate roasting, 12242
Iron sulfides, high-temperature heat contents and entropies of 4 solid solutions of zinc and iron sulfides, 2353
Ironworkers, structural, ornamental, and reinforcing, employment outlook, 9280
Irradiation, *see* Gamma rays—Radiation—Solar radiation—X-rays.
Irrigation:
flow resistance in simulated irrigation borders and furrows, 13
operation and maintenance bulletin, 3090
Western States, surface water quality, 6044
wireworms on irrigated land, control, etc., 11351
Irrigation projects, *see* Reclamation of land—*also* names of projects.
IRS, *see* Internal Revenue Service.
Irvine, Dallas, military operations of Civil War, guide index to official records of Armies, 14313
Irving M. Sobin Chemical Co., Inc., *see* Sobin, Irving M., Chemical Co., Inc.
Irwin, D. C., landing dynamics study for lunar landing research vehicle, 9403
Is it smart for you to quit school? 9893
IS series, Post Office Department, 1395
Isaacs, L. G., photolysis of poly(n-butyl methocrylate) in vacuum, 6550
Isbell, Horace S., organic chemistry, etc., 1299, 17944
Ishmael, George D., convey land to, 17088, 17416
Ishmael, Verna H., convey land to, 17088, 17416
Islam, *see* Mohammedanism.
Island lantern (periodical), 3091
Islands, *see* names of islands.
Isle of Palms:
hurricane survey, engineer report—
departmental edition, 8859
document edition, 8501
Isle Royale, wolves, 13880
Isle Royale National Park:
birds, 14676
general information, 5046
Isolation:
high-voltage device, for ion-thrustor propellant feed, 13838
vibration of marine machinery, USSR study, 2240
Isopropylpyrroles, *see* Pyrroles.
Isotope Institute of National Atomic Energy Committee, Hungary, activities, 13557
Isotopes:
analysis, instrumentation and procedures of NBS Analytical Mass Spectrometry Section, 15209
development, AEC authorizing legislation, 1967, hearings, 8482
heavy, methods of determining content of operating fuel elements, 8277
Isotopes—Continued
high-temperature radioisotope thermoelectric generator for space applications, 9928
industrial uses, 150
industry, developments and trends (address), 163
instruments using nuclear sources and utilized for controlling and automation of technical processes, all-Union Isotope Group catalog, 11415
isotopes and radiation technology, review of recent developments, 3092
physiological studies employing radioisotopes, 5401
plutonium and other radioisotope sources, discovery to demand (remarks), 6872
radioactive, medical use, AEC licensing guide, 6849
radioisotopes—
and life processes, 11444
and machine sources of X-radiation, comparative merits for aerospace applications, 12682
application to manned spacecraft life-support systems, 9923
applications in hydrospace, evaluation, 11416
facilities in general hospital, 6583
industry, 1688
medicine, 15550
selected literature search, 159
labeling of poliovirus and vaccinia virus, 9871
process control, large volume detectors, evaluation, 8276
scientists, examination announcement, 8404
techniques—
heat-shield ablation measurements, 7852
radiochemical analysis, 5013
teletherapy programs, AEC guide for licensing, 5381
trends in industrial uses, 150
X-ray sources for narrow band X-ray detector for identification of chemical elements, 6855
standards, reports, 5012
systems development program, 7th annual contractors meeting, 9918
uses in medical research, diagnosis and therapy, 5427
see also names of isotopes, e.g., Iodine isotopes.
Isotropy, table of radiation characteristics for uniformly spaced optimum endfire arrays with equal sidelobes, 2451
ISPO, *see* International Statistical Programs Office.
Israel, S. L.:
thermal conductivity of hydrogen from 2000° to 4700° F, 7728
thermal properties of tungsten, 7727
Israel:
accessions list, Library of Congress, American Libraries Book Procurement Center, Tel-Aviv, 3093
agricultural commodities, agreements, 15364, 16858
amateur allen radio operators, authorization to operate, agreement, 15366
atomic energy, cooperation for civil uses, agreement, 9726
background notes, 14024
cotton textiles, trade agreement, 16863
income-tax convention, 13073
mineral industry, minerals yearbook chapter, 4768, 15016
position and policy, 9177
visit by Senate delegation, report, 5811
Isserow, S., fabrication of seamless tungsten and tungsten-rhenium tubing, 11428
Isthmian Canal, *see* Panama Canal.

Istle:
suspension of duty, continue—
law, 17103
report, 8558
It takes courage, 16235
Itagaki, K., self-diffusion in ice single crystals, 8239
Italy:
almond industry, 13352
and Kennedy round (remarks), 8035
Austria-Italy boundary, study, 5154, 11256
Brazilian Expeditionary Force during World War II, report by commander, 9356
children's clothing, foreign market survey, 1692
Italian coin engravers, 2465
labor conditions, 13637
liability during private operation of N.S. Savannah, agreement, 9729
loan of submarines, law, 426
loan of vessels, agreement, 8073
market for American toys and games, 7006
mineral industry, minerals yearbook chapter, 7694
problems of Italian left and unification, 13485
selling in Italy, 340
trade agreement, exports of cotton velveteen fabrics, 6647
treaty claim funds balance, transfer to exchange program and International Institute for Unification of Private Law, agreement, 11270
Item identification, *see* Identification,
Item management coding manual, 5846–47
Iteration (mathematics):
method for computing—
chemical-equilibrium compositions of reacting-gas mixtures by reduction to single iteration equation, 13816
generalized inverse of matrix, 11078
method used in development of Hansen's coordinates in lunar problem, 7887
It's your future, 4329
It's your move!, 11153A
Ivanovo Medical Institute to publicize medical innovations, USSR, 16493
Ivins, Robert A., relief, 12886, 17421
Ivory Coast:
agricultural commodities, agreement, 15368
background notes, 18109
market for U.S. products, 7527
mineral industry, minerals yearbook chapter, 6301
Izvestiya VUZov (periodical):
instrument building, 3094

J

Jacchia, Luigi G., static diffusion models of upper atmosphere with empirical temperature profiles, 2560
Jack pine, *see* Pine.
Jacks, Ann M., printing and publishing, quarterly industry report, 3416
Jacks:
heavy duty precision leveling, use to expedite setup time on horizontal boring mill, 16634
steel, from Canada, determination of likelihood of injury, 15386
Jackson, Charlie M., jr., flight performance estimated with closed-form approximations to equations of motion, 4984
Jackson, L. Robert, structural concepts for hydrogen-fueled hypersonic airplanes, 6414
Jackson, Robert A.:
stability of rubble-mound breakwaters, Nassau Harbor, 679
stability of seawall, Texas City, Tex., 11898
Jackson, Miss., area wage survey, metropolitan area, 9324
Jackson County, Ala., coal resources of Fabius-Flat Rock area, 13680
Jacksonville, Fla., wage survey, metropolitan area, 10865
Jacob, Conrad J.:
construction, mining and materials handling machinery and equipment, 5448
engines and turbines and farm machinery and equipment, 8335
general industrial machinery and equipment, 5449
jewelry, silverware and plated ware, 3905
metalworking machinery and equipment, 6910
miscellaneous manufacturing industries, 6914
musical instruments and parts, toys, and sporting and athletic goods, 3906
office supplies, costume jewelry, and miscellaneous notions, 5451
service industry, machines and machine shops, 6911
special industry machinery, except metalworking machinery, 3901
Jacobius, Arnold J., aerospace medicine and biology, annotated bibliography, 10889
Jacobs, George J., proceedings of conference on theoretical biology, 13725
Jacobs, Haskell C., public assistance under social security act, serving people in need, 10451
Jacobs, Rodney D., silvicultural evaluation of 4 methods of marking 2d growth northern hardwood stands, 14700
Jacobson, Irven A., jr., thermal reactions of shale-oil components, methylpyrroles, butylpyrroles, and isopropylpyrroles, 6314
Jaeck, C. L., pressure and heat transfer tests on surface roughness elements, 15049
JAG journal, 3097
index, 1961–64, 1073
Jai Yul Sung, *see* Barker, David G.
Jamaica:
agricultural production, indices, 7289
agricultural products, demand, supply and imports, projected levels to 1975, summary and evaluation, 11865
background notes, 14025
James, George A., estimating recreation use on complex of developed sites, 16332
James, Harold L., chemistry of iron-rich sedimentary rocks, 4520
James, Preston E., geography as professional field, 10423
James, Richard W., ocean thermal structure forecasting, 12411
James, William L., effects of wood preservatives on electrical moisture-meter readings, 2060
James City County, Va., excavations at Tutter's Neck, 12397
James Madison Memorial Building, construct, hearing, 526
Jameson, Donald A., diurnal and seasonal fluctuations in moisture content of pinyon and juniper, 13369
Jamestown, Va., general information, 7945
Jamison, Donald E., integrated telemetry—computer system, 7894
Janes, H. B., phase-front distortion in simulated earth-to-space transmissions, 17942
Janezeck, Elizabeth G.:
basic library reference sources for business use, 18092
men's and boys' clothing, 2557
store arrangement and display, 2558, 11222
Janice Vee (fishing vessel):
documentation for coastwise trade hearings, 8674
Janz, George J., diffusion of electrolytes, diaphragm diffusion technique, 14771

Japan:
agricultural statistics, collection, 18128
air transport services, agreement, 15346
ambassador, nomination of U. Alexis Johnson, hearings, 14481
ancient novae and supernovae recorded in annals, and their significance in radio-astronomy, 4993
background notes, 11238
cotton and manmade fibers competition, 13355
economic relations with U.S. (address), 11509
fisheries, 10523
health information for travel, 6579, 16795
Japan and United States institutional relationships, building for future (remarks), 12200
MacArthur in Japan, the occupation, military phase, 8260
mineral industry, minerals yearbook chapter, 4769
mutual defense assistance, agreement, 15350
Parapercis kamoharai, new fish, 11225
scientific, industrial and technical instruments and equipment, 4014
southern, sailing directions, change, 15236
titanium dioxide, determination of no injury to U.S. industry, 11289
trade between U.S. and Japan (remarks), 15653
trade in cotton textiles, agreement, 9736
visit to, Senate delegation report, 5811
vitamin manufacture, 980
Japanese, coolie trade laws, repeal, report, 15910
Jarnagin, Milton P., jr., expansions in elliptic motion, 7952
Jarvis, Neldon L.:
adsorption of surface-active material at surface of sea-water samples from Bay of Panama, 6544
surface chemistry of fluorochemicals, 5073
Jasperoids:
direction of movement of jasperoidizing solution, 9013
Lake Valley Mining District, N. Mex., 4513
JCH series, 10403, 13259
JCS pub. series, 9061, 16389
Jean, C. V., Australian wheat marketing system, 4432
Jefferson County, Ala., dental health programs, 6586
Jefferson National Forest, establish Mount Rogers National Recreation Areas as part, law, 10089
Jeffrey pine, *see* Pine.
Jelley, Herbert M., interior decorating, 2559
Jellison, Robert A., relief, 15815
Jellyfish:
and other such pests, control—
hearings, 14433
report, 17556
Jenkins, Jerald M.:
pretensioning concept for relief of critical leading-edge thermal stress, 12367
thermal-buckling characteristics of flanged, thin-shell leading edges, 4972
Jenkins, Kenneth H., sewage and water works construction, 16292
Jenkinson, Paul M., effect of core thickness and moisture content on mechanical properties of 2 resin-treated paper honeycomb cores, 4463
Jensen, Albert C., U.S. cod fishery in northwest Atlantic, 747
Jensen, Malcolm W., checking prepackaged commodities, manual for weights and measures officials, Spanish translation, 1291
Jenson, Robert L., effects of prednisolone and triamcinolone on corticosteroid levels in parotid fluid, serum, and urine, 9868
Jerez, Ernesto Sanchez, *see* Sanchez Jerez, Ernesto.
Jerneli, Lloyd S., effects of wing planform on aerodynamic characteristics of wing-body-tail model at Mach numbers, 2412
Jernigan, Jasper E., trends in forage crop varieties, 17651
Jerschkowsky, Oleg, basic data on economy of U.S.S.R., 8430
Jersey cattle, *see* cattle.
Jersey City, N.J.:
area wage survey, metropolitan area, 9327
commodity transportation survey, production area series, 8342
Jet aircraft, *see* Aircraft.
Jet Aircraft Noise Panel, alleviation of jet aircraft noise near airports, report, 11214
Jet airplanes, *see* Airplanes.
Jet fuels, *see* Fuel.
Jet plumes:
exhaust plumes, highly underexpanded, impinging upon perpendicular flat surface, investigation, 6443
rocket exhaust, plume at low altitude, aerodynamic model, 16762
Jet streams, *see* Winds.
Jets:
ethanol, atomization in combustor with oscillatory combustion-gas flow, 15147
exhaust impingement studies, high altitude, cold gas technique, 1242
interaction of 2-dimensional jet with parallel flow, 15522
jet-induced lift loss of jet VTOL configurations in hovering condition, 11062
jet-induced lift losses on VTOL configurations hovering in and out of ground effect, 6415
nose-mounted control-systems, effect in roll-control positions on aerodynamics of space vehicle, 6448
refraction of sound by jet flow or jet temperature, 10960
water vapor, space vehicle attitude control systems, 13846
Jewel bearings, United States trade, 3869
Jewel Cave National Monument:
general information, 11128
revise boundary, report, 484
Jewelers, and jewelry repairmen, employment outlook, 9289
Jewelry:
census of manufacturers, industry report, 3905
costume, census of manufactures, industry report, 5451
Jewelry repairmen, *see* Jewelers.
Jigs (machinery):
assembly jig assures reliable solar cell modules, 4873
protects transistors from heat while tinning leads, 11032
Jin, Kim Sung, *see* Kim Sung Jin.
Jo Se Chan, *see* Ng, Sheung Wan.
Job analysis:
Air Force officer grade requirements project, job descriptions, etc., 6806
Air Force personnel job inventory, 6808
airman jobs, evaluation by 4 categories of raters, 16950
job descriptions—
ARNG technician program, NGB pamphlet, 11103
publications, price list, 11178
occupations in field of library science, 10434
position and pay management, supervisor development program, basic course, 11304
specifications for local agency personnel in public welfare family services, 11907
vocational education, training for yesterday's jobs? 13589

Job Corps:
administration, hearings, 8666
amendments to economic opportunity act—
hearings, 14498
House report 1568, print additional copies, report, 13007
reports, 10185, 12945, 16162, 17333
centers—
directory, 10403
list, 14527
conservation centers—
physical development and recreation manual, 10404
resident youth worker, examination announcement, 15634
corpsmen and women assist neighboring communities, 13260
counselor's reference bibliography, 11858
education in youth conservation center, 7276
establishment, act, as amended, 5862
every girl needs chance to become somebody, Job Corps may be your big chance, 7277
facts, 4269
physical conditioning manual, 618
placement centers, manual, 13259
training centers for women, general information, 7282
Job descriptions, *see* Job analysis.
Job evaluation, *see* Job analysis.
Job satisfaction, factors, spontaneous comments, 14192
Jobs, *see* Civil service—Employment—Job analysis—Occupations—Training—Work.
Johler, J. Ralph, zonal harmonics in low frequency terrestrial radio wave propagation, 13866
John Day Lock and Dam, compensation to Umatilla, Oreg., for losses due to project, report, 15889
John Elliot Rankin Memorial Veterans Hospital, naming, report, 10136
John F. Drews (vessel):
continue coastwise privileges, 12904
John F. Kennedy Center for Performing Arts, footlight (periodical), 2984
John Fitzgerald Kennedy Library:
title to, authorize Administrator of General Services to accept—
hearing, 14424
law, 17098
reports, 15664, 17467
John V. Boland Construction Co., *see* Boland, John V., Construction Co.
Johns, Robert H., theoretical elastic mismatch stresses, 4975
Johnsen, Roy L., weight study of partially segmented direct-condensing radiators for large space power systems, 4963
Johnson, Allan M., demineralization of saline water by environmentally modulated adsorption, 4551
Johnson, Clive E., consumer purchases of citrus fruit, juices, drinks, and other products, 2794
Johnson, David B., Federal-State cooperation in improvement of workmen's compensation legislation, 1687
Johnson, Duane A., arms and armaments, bibliography, 12627
Johnson, E. H., hydrogen maser frequency comparison with cesium beam standard, 7834
Johnson, Edward E., index numbers for mineral industries, 1111
Johnson, Elton P., relief, 8534, 11545, 11734
Johnson, Eric G., jr.:
calculation of admittance of parallel plate capacitor containing toroid-shaped sample, 13867
computation of permeability and permittivity of relatively small ring sample in toroidal coil, 6479
Johnson, Floyd A.:
bark factors for Douglas-fir, 10570
sample sizes for timber cruises, 4447
Johnson, Franklyn A., nomination, hearing, 5820
Johnson, Harry R., carbon deposition for thermal recovery of petroleum, 7715
Johnson, Howard B., bacterial soft rot in bell peppers, cause and commercial control, 6757
Johnson, Hugh A., paper presented, Apr. 6, 13, 20, and 27, 1966, 10417
Johnson, John, cloud on title to real property, remove, 13093
Johnson, Joseph L., jr., low-speed force and flight investigation of various methods for controlling parawings, 4899
Johnson, Louis A., Memorial Veterans' Hospital, *see* Louis A. Johnson Memorial Veterans' Hospital.
Johnson, Lyndon B., *see* President of United States.
Johnson, Nicholas:
remarks, etc.—
Nov. 17, 1965, 1102
Dec. 6, 1965, 1103–4
Jan. 12, 1966, 4745
Feb. 9, 1966, 4746
Feb. 23, 1966, 6280
May 4, 1966, 9352
May 9, 1966, 9353
May 19, 1966, 10900
May 22, 1966, 10901–02
May 25, 1966, 10903
June 4, 1966, 10904
Johnson, R. L., tips for managing drought-stricken cottonwoods along lower Mississippi River, 4457
Johnson, Raymond H., jr., ultrasonic dispersion of sediments for size fraction radioanalysis, 15277
Johnson, Robert W., thermal regulation for manned spacecraft cabins, 7867
Johnson, U. Alexis:
address, Jan. 21, 1966, 8056
nomination, hearings, 14481
Johnson, Weldell C., wind in southwestern Great Plains, 3736
Johnson, Wilfrid E., remarks, Sept. 14, 1966, 14241
Johnson County, Wyo., ground-water resources and geology, 12028
Johnston, Denis F.:
analysis of sources of information on population of Navaho—
departmental edition, 15498
document edition, 15779A
Johnston, Felton M., tributes upon retirement, 540
Johnston, James R., performance of rocket nozzle materials with solid propellants, 9541
Johnston, Kenneth H., thermal-recovery project and 2 waterflood projects in Carter, Garvin, and Stephens Counties, Okla., 16560
Johnston, Norman, stream catalog of southeastern Alaska regulatory district 9, 4426
Johnston, Olin DeWitt T., memorial services, 365
Johnston, Richard S., space suit development status, 6455
Joiner, Robert C., digest of pension plans for salaried employees, 9330
Joint Chiefs of Staff, JCS pub. series, 9061, 16389
Joint financial management improvement program, annual report, 8981

Joint Publications Research Service:
catalog, current translations, 13447
JPRS series, 876–1072, 2147–2278, 2636, 2767–75, 2780, 2865–72, 2876, 2888, 2988, 3039, 3053–54, 3094, 3197, 3328, 3339, 3520, 3524–27, 3557–59, 3561–62, 3587–3618, 3656–77, 3682, 4588–4693, 6103–6247, 7545–7637, 9063–9188, 10701–836, 12089–194, 13449–586, 14789–958, 16391–510, 17750–796
Joint Senate-House Republication Leadership, record of press conference statements, 17407
Joints:
bellows joint absorbs torsional deflections in duct system, 13767
construction, horizontal, in concrete, methods of preparing, 11899
end, evaluation of commercially made end joints in lumber, 3 test methods, 4466
iron stain effects on construction joints, 11899
mismatch in circumferential joint in cylindrical pressure vessel—
comparison of experimental and theoretical stresses, 16676
thickness changes, and meridional load coupling, 16677
portable power tool machines weld joints in field, 7799
Jones, Adam, land conveyance to heirs, 1802
Jones, Benjamin L., effects of agricultural conservation practices on hydrology of Corey Creek basin, Pa., 17725
Jones, Bessie Z., lighthouse of the skies, 8019
Jones, Blair F., hydrology and mineralogy of Deep Springs Lake, Inyo County, Calif., 9018
Jones, David L., Lower Cretaceous (Albian) ammonite genera Leconteites and Brewericeras, 2104
Jones, James R., proceedings against, report, 4093
Jones, Jim J., Langley pilot model expansion tube with hydrogen driver, 11956
Jones, John P., commemoration at Annapolis, Apr. 24, 1906, 15240
Jones, John W., educational programs for visually handicapped children, 8839
Jones, Lawrence A.:
rural home financing through voluntary Home mortgage credit program, 14535
social security amendments of 1965, importance to farm and rural people, 1971
Jones, Milbrey L., book selection aids for children and teachers in elementary and secondary schools, 8836
Jones, Mildred V., wool statistics and related data, 1920–64, 1965 supplement, 15478
Jones, R. L., space suit assemblies, 13815
Jones, Richard K., relief, 5732
Jones, Robert A., use of fusible temperature indicators for obtaining quantitative aerodynamic heat-transfer data, 4986
Jones, Ruben L., deriving earth-centered datum from optical observations of earth's horizon from earth satellite, 7880
Jones, Thomas W., appraisal of oak wilt control programs in eastern United States, 10590
Jones, William B., advances in ionospheric mapping by numerical methods, 13868
Jones, William I., development digest, 2854
Jones, William J., NASA contributions to cardiovascular monitoring, 15084
Jones Bluff lock, Alabama River, Ala., filling and emptying systems, hydraulic model investigation, 10444
Jordan, Max F., economic survey of Ozark region, 17615
Jordan, Russell W., relief, 15813
Jordan:
agricultural economy in brief, 8831
background notes, 6625
mineral industry, minerals yearbook chapter, 4770, 15017
Saudi Arabia boundary, study, 6635
Jordan Ferrando, Maria, relief, 16018
Joseph H. Hirshhorn Museum and Sculpture Garden:
establish—
hearings, 13229, 14439
recommendation, 11606
Joshua Tree National Monument, general information, 6510
Joss, William W., inverse technique application to flow over blunt body at angle of attack, 9419
Josselyn, Irene M., contradictory urges besetting normal young people during psychological changes in adolescence, 274
Journalists:
French Communist, interviewed on stay with National Liberation Front forces in South Vietnam, 2253
Soviet, trip to India, report, 10800
Journals:
Antarctic journal of United States, 5048
civil service, 2750
East European legal, abstracts, 2636
executive proceedings of Senate, 89th Cong., 1st sess., 1883
index, 4156
House of Representatives, 89th Cong., 1st sess., 8486
indexed in index medicus, list, 9564
JAG journal, 3097
journal of research, National Bureau of Standards, 3100–3, 16713, 17937–938
Library of Congress quarterly, 3441
National Cancer Institute, 3099
scientific, availability in defense oriented libraries, 12626
Senate, 89th Cong., 1st sess., 4157
Ships Bureau, 2716
Supreme Court, 3566
see also Medical journals.
JPRS, *see* Joint Publications Research Service.
JPRS series, 876–1072, 2147–2278, 2636, 2767–75, 2780, 2865–72, 2876, 2888, 2988, 3039, 3053–54, 3094, 3197, 3328, 3339, 3520, 3524–27, 3557–59, 3561–62, 3587–3618, 3656–77, 3682, 4588–4693, 6103–6247, 7545–7637, 9063–9188, 10701–836, 12089–194, 13449–586, 14789–958, 16391–510, 17750–796
Judaism, decline in Moldavia, 14867
Judge Advocate General, Air Force:
digest of opinions, 1961
report, 10381
Judge Advocate General, Army:
digest of opinions, 1961
legal service, pamphlets, 122–124, 1643, 5352–59
reserve component information, 124
semiannual index, 5354
report, 10381
Judge Advocate General, Navy:
digest of opinions, 1961
JAG journal, 3097
index, 1961–64, 1073
report, 10381
Judge Advocates General of Armed Forces:
boards of review, court martial reports, holdings and decisions, 5845
court-martial reports, opinions cited, etc., citators and index, 10384
digest of opinions, 1961
Judges:
circuit and district, additional, appoint—
hearings, 4138
law, 7036
reports, 4111, 5668

Judges—Continued
Court of Claims, provide for 2 additional—
law, 10076
reports, 8552, 8625
District of Columbia Court of General Sessions—
increase number, hearing, 7129
increase retirement salaries—
law, 15765
report, 10120
district, Puerto Rico, tenure—
law, 17101
report, 17479
Federal, judicial fitness, removal, retirement, and disciplining procedures, hearings, 7222
retired, court of appeals, court of general sessions and juvenile court of D.C., increase retirement salaries—
law, 15757
report, 16114
Tax Court, retired pay, change method of computing—
law, 5580
report, 4169
Judgments, *see* Actions at law—Claims—*also* names of courts, etc., rendering judgments—*also* special subjects.
Judicial Conference of United States:
proceedings, reports—
departmental editions, 5258, 9771, 11334
document editions, 5601, 11614
Judicial procedure, *see* Civil procedure.
Judicial review:
constitutionality of grants or loans under certain acts—
hearings, 11818, 13223
report, 13164
Judiciary, *see* Courts of United States—Justice Department—State courts.
Judiciary Committee, House:
activities, summary, 4141
additional funds, report, 5641
Antitrust Subcommitte publications, index, 7154
calendar, 3121
committee prints, 520–521, 4140–41, 7154, 10254
hearings, 4137–38, 5699, 8672–73, 10253, 11668–671, 14429–430, 15983, 17388
history, 4140
investigations and studies, authorization, report, 8600
reports, 471–476, 1803–17, 1819, 1841, 4074–80, 4098, 4100, 4111, 5625–32, 5656, 7072–77, 8510–41, 8552, 8563–65, 8607–8, 8619, 8631, 10106–117, 10122, 10155–158, 10163, 12866–903, 12923, 12929, 12952–956, 12972, 14389, 15791–825, 15827–835, 15883–886, 15888–889, 15891, 15910, 17174–177, 17179–181, 17222–223, 17232, 17236, 17243–247, 17292
Judiciary Committee, Senate:
calendar, 3139
committee prints, 581, 585, 4227, 7219–20, 8780, 8783, 10353, 10355, 10358, 13224, 14497, 17586
hearings, 580, 582–584, 586–588, 1942–48, 4225–26, 4228–29, 5816–17, 7221–25, 8781–82, 8784–85, 10352, 10354, 10356–357, 10359, 11815–821, 13221–223, 14492–496, 16190–191, 17587–588
investigations and studies—
administrative practice and procedure in Federal agencies—
authorization, report, 4186
report, 5782
antitrust and monopoly laws, administration—
authorization, report, 4187
report, 17461
Judiciary Committee, Senate—Continued
investigations and studies—continued
constitutional amendments, authorization, report, 4205
constitutional rights, authorization, report, 4188
criminal laws and procedures, authorization, report, 4189
encroachments by executive and judicial branches upon powers of Congress, report, 17546
Federal charters, holidays, and celebrations, authorization, report, 4190
Federal judicial system, authorization, report, 4206
immigration and naturalization—
authorization, report, 4191
report on findings, etc., 5781
internal security laws, etc., administration, authorization, report, 4192
internal security laws, gaps in, investigations, etc., hearings, 16190
juvenile delinquency—
authorization, report, 4193
report on findings, 16160
national penitentiaries—
authorization, report, 4194
report on findings, 8727
Patent Office administration and patent statutes, authorization, report, 4195
refugees and escapees, authorization, report, 4196
revision and codification of U.S. statutes—
authorization, report, 4197
report, 5783
trading with the enemy act, etc.—
extension, report, 10295
report, 5780
reports, 547, 550, 555, 1888–1908, 1912–13, 1917, 1921, 1923–24, 4166, 5722–50, 5772–74, 5776–77, 5779–83, 7177, 8692, 8694–8721, 8727, 8741, 10284–285, 11701–734, 11758–763, 13094–120, 13124–125, 13127–128, 13130, 13157–159, 13164–165, 13187, 14453, 14455, 14458, 16003–12, 16014–27, 16029–44, 16047–64, 16082–87, 16100, 16107–108, 16122, 16154–156, 16160, 16163, 17409–412, 17419–458, 17461, 17477–482, 17551, 17554–555, 17560
Judson, Arthur, weather and climate of high mountain pass in Colorado Rockies, 4475
Judy, R. W., jr., fractographic analysis of Ti–7Al–2Cb–1Ta and Ti–6Al–4V fractures developed in wet fatigue, 12423
Judy, William V., caloriegenic response of warm- and cold-adapted rabbits to intravenous infusion of epinephrine, etc., 9858
Juices, canned, economic inquiry into marketing, 2033
see also Fruit juices.
Jun Ki Sook, *see* Ki Sook Jun.
Junction connectors for strategic placement of television cameras, 15121
Juneau, Alaska, principal electric facilities, map, 7381
Jung Won Loy, relief, 8514, 14346
Junior colleges:
District of Columbia, establish, authorization, hearings, 10337
public community and vocational college, establish in D.C.—
hearings, 17370
report, 17488
Junior high schools, life sciences in space age setting, 12263
Juniper, *see* Cedar.
Junkyards:
along Federal-aid highways, control—
costs, 1967 estimate, instruction manual, 11204
report, 546
Jupiter (planet):
trajectories, planetary flight handbook, 9445

Jurisdiction:
Federal Power Commission, exempt nonprofit cooperatives, clarify, hearings, hearings, 1931
Fort Lyon Veterans Hospital, retrocede to Colorado, report, 10132
legislative, over Camp Atterbury, retrocede to Indiana—
hearing, 17360
report, 12995
see also Criminal jurisdiction—Venue.
Jurkevich, I., non-linear regression analysis and analysis of variance of periods defined by irregular observations, 9434
Jury:
duty, women, eligibility, laws, 12572
free press and fair trial, constitutional rights and guaranties, hearings, 4225
selection of jurors, eliminate discrimination, message from the President, 8509
selection, protect civil rights—
hearings, 11671, 14493
report, 12929
Justice, administration, hearings, 1748
Justice Department:
annual report, 9190
Antitrust Division, activities relating to small business, hearings, 15990
appropriations, 1966, budget amendments, 8691
appropriations, 1967—
hearings, 15957, 17567
reports, 15938, 17539
contracting procedures for employment of appraisers to value Indian lands, GAO report, 13374
judicial administration, code of Federal regulations, 7398
opinions of Attorney General, 3299, 6248, 7638, 9191–92, 14959
register, 10837
Jute, line brattice systems, performance characteristics for face ventilation in underground bituminous coal mines, 6317
Juvenile courts:
legal bibliography, 9974
standards, 9976
statistics, 3948
Juvenile delinquency:
and youth offenses control act, training grants awarded, Sept. 1964–Sept. 1965, summaries, 16906
correction series, 14084
gangs, new developments in research and theory, 2515
international bibliography on crime and delinquency (periodical), 3074
investigation—
authorization, report, 4193
reports on findings, 1924, 16160
parole series, 12566, 14079–82
prevention and control, project innovation, seeking new answers, 14083
profile of youth, 17408
public institutions for delinquent children, 1964, statistics, 3947

K

Kaapke, Lyle D., multiple linear regression analysis of officer career attitudes, 3790
Kachadoorian, Reuben, effects of earthquake of Mar. 27, 1964, at Whittier, Alaska, 4525
Kaestner, Gottfried R., relief, 11714, 15695
Kalama, Wash., railroad accident, 6095
Kalamazoo, Mich., artesian glacial-drift aquifer, induced recharge, 13416
Kallio, N. A., effect of vertical motion on current meters, 17731
Kalman, R. E., user's manual for automatic synthesis program, 12265
Kalman-Schmidt filter, satellite attitude determination, 16608–609
Kaluga, Russian, SFSR, turbine plant, reasons for labor turnover, 17773
Kammer, E. W., transducer loading effects on ultrasonic transit time measurements, 1366
Kampinsky, A., passive communications satellite (Echo II), 9505
Kana, Daniel D., liquid surface oscillations, in tanks, 13719
Kanning, Gerd, measured performance of water vapor jets for space vehicle attitude control systems, 13846
Kansas:
assistance for reconstruction of areas damaged by tornadoes, hearings, 11792
bluestem, Flint Hills, pasture report, 15375
census of governments, 1962, State report, correction, 209
census of manufactures, 1963, area statistics, 15569
climatological data, 2751
concurrent jurisdiction over Haskell Institute, retrocede—
law, 11551
reports, 7097, 10312
congressional districts, 90th Congress, 15607
county business patterns, 1964, 228
floods, June 1965, subcommittee report, 11681
iron and steel scrap, 9360
life tables, 18024
Little Blue River basin, fluvial sediment and chemical quality of water, 17728
manufacturing plants, location by county, industry, and employment size, 1963 census, 14257
mineral industry, minerals yearbook chapter, 1127
precipitation data, hourly, 3045
public transit compact for Kansas City area, approval—
law, 15766
reports, 13159, 17223
Sherman County Soil Conservation District, terraces protect the land, windbreaks the farmstead (colored poster), 9675
soil survey laboratory data and descriptions, 16838
stored wheat, 4 inert dusts for protection from insect attack, evaluation, 14110
women workers, 14097
Kansas City, Kans.:
area wage survey, 6265
census of business, 1963, major retail centers, standard metropolitan statistical area, errata, 184
Kansas City, Mo.:
aircraft accident, 12735
area wage survey, 6265
census of business, 1963, major retail centers, standard metropolitan statistical area, errata, 184
principal electric facilities, map, 7376
Kansas City Area Transportation Authority:
compact creating, approval—
law, 15766
reports, 13159, 17223
Kansas City Area Transportation District:
compact creating, approval—
law, 15766
reports, 13159, 17223
Kansu Province, agricultural regions in mixed agro-pastoral realm, preliminary research, 12117
Kao, Timothy W., concentration profile establishment of binary gas mixture in swirl and duct flows, 9394
Kaolin, coarse, continuous attrition grinding, 1165
Kapitsa, P. L., Soviet scientist acknowledges shortcomings in industrial application of Soviet scientific achievements, 6128

239–221—67—No. 863——24

Kaplan, Harry, prediction of success in Army aviation training, 3843
Kaplan, Irving, U.S. Army area handbook for Syria, 5366
Kaplan, Margorie N., USAF officer evaluation system survey, 6805
Kara Kalpak Autonomous Soviet Socialist Republic, *see* Uzbek Soviet Socialist Republic.
Kara-Kalpak language, atheistic pamphlets, published for propaganda purposes, 9068
Kara-Kalpakistan, *see* Uzbek Soviet Socialist Republic.
Karr, Clarence, jr., influence of continuous carbonization method, temperature, and carrier gas on amounts of pyrolysis products, etc., 16583
Karras, Thomas J., equivalent noise bandwidth analysis from transfer functions, 1241
Karski, Alexander P., *see* Kaznacheev, Aleksandr.
Karst, depostis, Madison group, Livingston, Mont., discussion, 4522
Kashmir, apple of discord, 945
Kaskaskia River, Shelbyville Dam, spillway and outlet works, hydraulic model investigation, 11897
Kasten, Fritz, albedo and sky radiance measurements in Greenland, 11395
Katell, Sidney, bibliography of investment and operating costs for chemical and petroleum plants, 12235
Kattegat:
  lights and fog signals, list, changes, 1338, 6523, 9584, 16747
  sailing directions, change, 12402
Katz, Darryl, acoustic displays of flight parameters, 13710
Katzenbach, Nicholas deB., nomination, hearings, 17579
Katzman, Robert, acidic lipids, ionic, surface and membrane properties, 10671
Kaufman, Alvin, water use in mineral industry, 6290
Kaufman, Larry:
  evaporation in Ta-Hf-C system, 9429
  vaporization of liquid uranium bearing systems at very high temperatures, 2368
  vaporization of liquid uranium, metal, and carbon systems at 9000° and 10,000° R, 15076
Kaufman, Lawrence A., engine failure protective warning systems in single-engine turbine helicopter, 3838
Kaur, Bibi Daljeet, relief, 380
Kavanagh, Patrick, through-flow solution for axial-flow turbomachine blade rows, 4820
Kawa, Walter, reaction of coal in argon and argon-hydrogen plasmas, 15030
Kawamura, Teruyoshi, phytoplankton populations in Sandy Hook Bay, etc., 7444
Kawenski, Edward M., stoppings for ventilating coal mines, 4793
Kay, Evelyn R., how to establish current reporting of employment, hours, and earnings in developing countries, 12209
Kayenta quadrangle, Ariz., geology, 816
Kaykaty, Gabriel, analysis of performance of double-reflector system for collecting solar energy, 13837
Kazakh Soviet Socialist Republic:
  Academy of Sciences—
    Biological Science Department, scientific activity of institutions, 14923
    election of vice-president, 7584
  anti-malarial measures, 10815
  fish reserves in reservoirs, USSR conference, 10787
  fishery resources, conference, 12163
  hydrobiological research, 9147
  public health progress, 14915
  southern, statistical structure of wind field, 14877
Kazakhstan, *see* Kazakh Soviet Socialist Republic.
Kazanowski, Edward J., wholesale prices and price indexes, 13620
Kaznacheev, Aleksandr, relief, 472
Keala, Betty Ann L., table of sigma-t with intervals of 0.1 for temperature and salinity, 7441
Kear, John C.:
  business machines and equipment in France, 7007
  market data on business machines in Sweden, 10023
  scientific, industrial and technical instruments and equipment in Japan, 4014
Kearns, Thomas F., oil and gas lease, reinstate, report, 17491
Keefe, H. Douglas, industrial equipment industries in France, 5550
Keefer, W. R., Paleozoic formations in Wind River basin, Wyo., 17720
Keen, F. P., western pine beetle, 14694
Keeping a cow, 9820
Kehn, Thomas M., geology of Ransom quadrangle, Lackawanna, Luzerne, and Wyoming Counties, Pa., 13397
Keighton, W. B., fresh-water discharge-salinity relations in tidal Delaware River, 10647
Keilin, B., structure and properties of reverse osmosis membranes, 2114
Keller, M., three-photo aerotriangulation, 11504
Keller, W. C., values for scattering by dielectric spheres in region of first resonance, 12439
Kelley, Charles R., role of prediction in training with simulated orbital docking task, 13910
Kellogg, Frazier, 20 years of experience under Emloyment act of 1946, 7231
Kellog, H. B., 1000 MWe supercritical pressure nuclear reactor plant study, 161
Kelly, C. F., chronic acceleration studies, physiological responses to artificial alterations in weight, 9415
Kelly, James E.:
  oral hygiene in adults, United States, 1960–62, 12489
  peridontal disease in adults, 1960–62, 1439
Kelly, Thomas C., effects of model geometric accuracy on comparision of wind-tunnel and flight pressure measurements on launch vehicle, 6445
Kelly, Walt, Pogo, welcome to the beginning, work training, 2284
Kemp, Barbara H., youth we haven't served, 8854
Kemp, William B., jr., ground effects related to landing of airplanes with low-aspect-ratio wings, 16663
Kemper, W. D., aggregate stability of soils from western United States and Canada, measurement procedure, correlations with soil constituents, 11369
Kenai, Alaska, Federal grants for airport improvements, Federal Aviation Agency, GAO, review, 17711
Kenai Lake, earthquake of Mar. 27, 1964, slide induced waves, etc., 13411
Kenai National Moose Range, general information, 8941
Kendall, Ronald F., mass and infrared spectra of selected unsaturated hydrocarbons and oxygenates, 17863
Kenilworth Aquatic Gardens, general information, 1331
Kennebec River, water resource appraisals for hydroelectric licensing of basin, planning status report, 4385
Kennedy, James G., characteristics of U.S. rice fields and their effects on ground mobility, 5891
Kennedy, John F., assassination, preserving evidence, law, 420

Kennedy, John Fitzgerald, Library, *see* John Fitzgerald Kennedy Library.
Kennedy, Marjorie D., confectionery sales & distribution, 1964, 173
Kennedy round, *see* General agreement on tariffs and trade.
Kennerly, Edwin B., digest of public general bills and selected resolutions, 2855
Kenosha, Wis., commodity transportation survey, production area series, 9957
Kent, James A., preparation of wood-plastic combinations using gamma radiation to induce polymerization, 12683
Kentucky:
  Bluegrass area, tobacco-livestock farms, costs and returns, 14531
  census of governments, 1962, State report, correction, 210
  census of manufactures, 1963, manufacturing plants, location by county, industry, and employment size, 14259
  climatological data, 2751
  congressional districts, 90th Congress, 17014
  county business patterns, 1720
  eastern coal fields, chemical and physical properties of spoil banks, 5990
  Fayette County Soil Conservation District, fine horses, forage, and fences in Bluegrass country (colored poster), 9676
  flow characteristics of oil-producing sandstones, laboratory evaluation, 12258
  forests—
    Blue Grass Unit, 14718
    Eastern Unit, 11995
    Northern Cumberland Unit, 11996
    Pennyroyal Unit, 14717
    Southern Cumberland Unit, 4477
    Western Coalfield Unit, 14720
    Western Unit, 14719
  hardwood circular sawmills, cause and cost of production delay, 5977
  Harrodsburg limestone, 9015
  life tables, 18025
  logging in southeast, harvesting costs, etc. on mechanized operation, 5976
  lumber produced by sawmills, geographic destination and market outlets, 5979
  mineral districts, regional structure, 6029
  mineral industry, minerals yearbook chapter, 1128
  Ohio River Valley, alluvial deposits, hydrology, 4530
  precipitation data, hourly, 3045
  south and southeast-central, Borden formation (Mississippi), 10634
Kenya:
  agricultural commodities, agreement, 1501, 6649, 8087, 15357
  background notes, 18110
  economy, basic data, 346
  extradition treaty, 8646
  foreign trade regulations, 15646
  market for U.S. products, 12059
  mineral industry, minerals yearbook chapter, 7695
Keogh, Eugene J., award of Order of Isabella the Catholic, authorize acceptance, 17066, 17413
Keplec's laws, *see* Orbits.
Keppel, Francis:
  addresses—
    May 31, 1965, 5873
    June 12, 1965, 4300
    June 22, 1965, 4314
    July 20, 1965, 4310
    Aug. 23, 1965, 4308
    Oct. 7, 1965, 8840
    Oct. 28, 1965, 8853
    Nov. 10, 1965, 4321
    Nov. 18, 1965, 7299
    Nov. 22, 1965, 7313
    Dec. 2, 1965, 8844, 8852
    Dec. 16, 1965, 8841
Kermit area, Ky., geology and coal reserves, 9019
Kern National Wildlife Refuge, birds, list, 8942
Kerns, William H., sodium and sodium compounds, 13701
Keroher, Grace C., lexicon of geologic names of United States, 9008
Kerr, Arnold D., new foundation model, 12649
Kerr, James R.:
  mineral industry of—
    Pennsylvania, 2340
    Vermont, 1148
    West Virginia, 2346
Kerr, R. B., signal and noise level estimation in coherent PCM channel, 7734
Kerr-Mills program, *see* Medical care.
Kershner, Alan M., electroluminescent vs teletype readibility of weather messages, 6801
Kesterke, Donald G., fused-fluoride electrowinning of thorium-base alloys, 10927
Ketchikan, Alaska, principal electric facilities, map, 7381
Ketner, K. B., mineral resources of stratified primitive area, Wyoming, 12016
Ketones, blood ketones during progressive hyperthermia, 12635
Keulegan, Garbis H., approximate theories of pneumatic wave generators, 10442
Keweenawan Basin, tectonics, western Lake Superior region, 9020
Key, Wallace W., use of fillers, etc., in California asphalt-consuming industries, 13683
Key deer, *see* Deer.
Key Largo Coral Reef Preserve, Fla., echinoid distribution and habits, 1461
Key to aviation weather reports, 11316
Key to meteorological records documentation, 1535, 4346, 5226, 5900, 8867, 11902, 14579–580
Keyed plugs and sockets prevent improper connections, 4875
Keypunch controls for string-punching of statistical data, 5016
Keys, *see* Locks and keys.
Keyserling, Mary D.:
  addresses, etc.—
    Oct. 29, 1965, 6698
    Nov. 4, 1965, 1566
    Nov. 11, 1965, 1560
    Nov. 16, 1965, 1551
    Nov. 30, 1965, 1554
    Feb. 5, 1966, 5250
    Apr. 4, 1966, 9769
    May 3, 1966, 9768
    June 29, 1966, 12571, 16911
Khalafalla, Sanaa E., adsorption phenomena and reduction of iron oxides, 4789, 16577
Khandker, N. Alam, some observations on distribution of Penaeid shrimp in eastern Venezuela, 748
Khapra beetles, *see* Beetles.
Khingan, Inner Mongolian Autonomous Region, Manchuria, China, 39th Army operation, 1945, USSR study, 1065
Ki Sook Jun, relief, 5749, 8458
Kidnaping, Soviet policy, instrument, hearing, 583
Kidney Disease Branch, PHS, general information, 2534
Kidneys:
  diseases, guide for public health personnel, 5110
  renal disease and hypertension, Public Health Service cooperative studies, conferences, proceedings, 15296
  renal failure, acute and chronic, serum and parotid fluid free 17-hydroxycorticoxteroid levels, 1627
  see also Artificial kidney.
Kieffer pears, *see* Pears.
Kieley, James F., cancer programs of U.S. Public Health Service, 4531

Kier, Porter M.:
echinoid distribution and habits, Key Largo Coral Reef Preserve, Fla., 1461
eocene echinoids from Barbados, 18097
Kiev, Ukrainian SSR, general engineering faculties, teachers, seminars, 6138
Kil Ja Chung, *see* Chung, Kil Ja.
Kilauea Volcano:
acid fumarolic gas from, 4523
chemistry of lavas, 7488
1959–60 eruption (series), 4523–24, 7488, 12026
petrography of lavas, 4524
Killingworth, Charles C., seminar on manpower policy and program, structural unemployment in United States, 4700
Kiln-drying, *see* Kilns.
Kilns:
high-temperature kiln drying of lumber, bibliography, 16336
kiln-drying news and views, warp reduction, 4439
operation and maintenance of lumber dry kilns, Australian study, 10564
Kim Kap Yung, *see* Yung, Kim Kap.
Kim Kin Soon, relief, 8719, 15693
Kim, Stephen M., electrodeposition of actinides and lanthanides, 5394
Kim Sung Jin relief, 394, 1900
Kim Yung Mi, relief, 16017
Kimball, Eloise M., decisions of Department of Interior, 1964, 2112
Kimbell, Charles L.:
mineral industry of—
Argentina, 10911
Basutoland, Bechuanaland, and Swaziland, 4761
Burundi, Cameroon, Central African Republic, Chad, etc., 9362
South-West Africa, 6305
Kimzey, J. H., flammability in zero-gravity environment, 17932
Kindergarten:
educating disadvantaged children under 6, 5671
enrollment of children under 6, 10428
teaching poison prevention, guide, 6578
Kinematics, transformations of several mechanisms, 12270
Kinetics:
behavior of sugars in solution, progress report of Organic Chemistry Section, July 1965–June 1966, 17944
cell proliferation, in epithelia of hibernating dormice, 9859
desorption, multiple adsorbates, cesium with fluorine on molybdenum and tungsten, 15187
electrochemical analysis of acids, etc., by kinetic method, 16717
fluorination of iron, 15180
recuperation following 55 Mev proton irradiation, 5335
see also Chemical reactions.
King, Everett E.:
electrodynamics of superconducting parallel path circuit, 16770
magnetic torque of ideal superconducting toroids, 16771
King, J. Derwin, vibrating diaphragm pressure transducer, 15082
King, Margaret L., Sweden, educational data, 656
King, Richard A., peanut handling, economic implications of shift from bag to bulk in Virginia-North Carolina area, 9822
King, W. F., bias determination of mass spectrometric isotopic analysis of boron using prepared standards and sodium and cesium tetraborate charge material, 11427
King Faisal of Saudi Arabia, *see* Faisal, King, of Saudi Arabia.
Kinkade, Robert G., tactical decision making behavior, 8194
Kinnen, Edwin, electrical resistivity of lung at 100 kc./sec., 12638
Kinney, Edward C.:
cooperative fishery units, annual report, 766
Division of Fishery Management Services, annual report, 765
Kinney, Jo Ann S.:
effect of exposure time on induced color, 13660
recovery of foveal acuity following exposure to various intensities and durations of light, 13665
Kinzua Dam:
designate—
law, 15769
report, 16126
Kirby, James G., crude petroleum and petroleum products, 1108
Kirby, Robert H., dynamic stability and control characteristics of fan-in-wing VTOL airplane, 13807
Kirghiz Soviet Socialist Republic, religious vestige, 6113
Kirgiziya, *see* Kirghiz Soviet Socialist Republic.
Kish, Joseph L., protection of vital records, 15622
Kisieleski, Walter E., radioisotopes and life processes, 11444
Kistler, R. W., Dinkey Creek roof pendant, 10645
Kit o'tips for youth and their employers, aids to safety, 10848
Kites, moored, Federal aviation regulations, 10463
Kits, *see* Dental kits—Tool kits.
KIWI B (rocket), *see* Rockets.
Klamath River and Valley, Klamath Basin, water pollution, study, 8933
Klawitter, Ralph A., slash pine response to drainage, 16331
Klebba, A. Joan, mortality from diseases associated with smoking, United States, 16811
Kleber, Brooks E., chemicals in combat, 9358
Kleh, Thomas R., ionizing radiation effects on eyes of personnel in nuclear-powered submarine, 14991
Klein, Gerhard, multicomponent ion exchange in fixed beds operated under equilibrium conditions, etc., 12050–51
Klein, J. L., beryllium windows from CEA bubble chamber, 9922
Klein, Julius, relationship with Thomas J. Dodd, hearings, 16198
Klement, Alfred W., jr.:
natural environmental radioactivity, annotated bibliography, 160
radioactive fallout from nuclear weapons tests, 5384
terrestrial and freshwater radioecology, 11434
Klier, E. P.:
conditions of failure in fatigue cracked 4340 steel, 6541
cooling transformations in certain uranium-bearing steels, 2492
Klinger, F. L.:
mineral industry of—
Belgium, 10912
Finland, 7693, 17842
Italy, 7694
Klingman, Charles L., adsorptivity of charcoals, 17856
Kloepper, Dean L., solvent processing of coal to produce de-ashed product, 312
Kloos, Edwin J.:
gas masks for respiratory protection against—
amines, 13681
phosphine, 13678

Klopp, William D.:
mechanical properties and recrystallization behavior of electric-beam-melted tungsten compared with arc-melted tungsten, 4966
mechanical properties of dilute tungsten-rhenium alloys, 16654
Klove, Robert C., census tract manual, 5454
Klyce, Donald F.:
mineral industry of—
Indiana, 1125
Michigan, 2334
Knapp, Joseph G.:
addresses, lectures, etc., Sept. 14–24, 1965, 5911
basic cooperative features, 14590
Kniffin, Fred W.:
distribution cost analysis, 16819
retail credit and collections, 15324
Knight, John T., claim against U.S., 12881
Knipling, E. F., population models to test theoretical effects of sex attractants used for insect control, 9815
Knit goods, *see* Textiles—*also* names of clothing.
Knitting mills, census of manufactures, industry report, 3887
Knives, adjustable, to cut honeycomb material, 11029
Knodel, Paul C., soils tests computer programs, 16817
Knott, Edward M., homemakers' opinions and preferences for broiler-fryers and turkeys, 14141
Know your FBI, 7359
Knowledge:
human knowledge turns to all men in all nations (remarks), 15542
theory of organization as independent branch, 10772
Knowles, Paul H.:
reconnaissance for uranium in Lonquimay area, province of Malleco, Chile, 5400
uranium exploration in Chile, 6859
Knudsen effusion apparatus for vapor pressure measurements, 17858
Knudson, A. R., tables of spherical Hankel functions of imaginary argument, 1375
Koa, phenology of Acacia koa on Mauna Loa, Hawaii, 10577
Kobayashi, Shigeo, influence of boundary conditions on buckling load of cylindrical shells under axial compression, 15061
Kobett, D. R., flutter of mutiple-streamwise bay rectangular panels at low supersonic Mach number, 15050
Koch, George S., Jr., delineation of Texas lignite beds by statistical techniques, 16578
Koch, H. W., nuclear and radiation standards of importance to national atomic energy program, 7919
Kock Kong Fong, *see* Fong, Kock Kong.
Kodiak, Alaska:
property conveyed to, terminating use restrictions—
law, 15718
reports, 10321, 12951
Kodiak National Wildlife Refuge, birds, 760
Koenig, Elizabeth, cancer and virus, guide and bibliography, 13960
Koenigs, J. W., evaluation of antibiotics for control of comandra rust on lodgepole pine, 15436
Koestler, Alfred G., effect on chimpanzee of rapid decompression to near vacuum, 1188
Koestler, Frances A., portrait of median city, capsule view of social welfare programs in United States, 16905
Kofa Game Range:
birds, 4417
general information, 759
Kofskey, Milton G., radial inflow turbine designed for Brayton cycle space power generation system, 4898
Kohler, Roy D., nomination, hearings, 17579
Kolar, Michael J., thermal boundary in confined liquid, 9521
Kolkhozes, *see* Collectives.
Kollar, K. L., regional requirements for sewer pipe in sewerage utilities, 5435
Kollmann, George, chemical protection against radiation damage to immune response in mouse spleen cells in vitro, 15494
Kollmeyer, Ronald C., oceanography of Grand Banks region of Newfoundland, 14317
Kolodrubets, Walter W., private pension plan benefits, 14978
Kolstad, G. A., pulsed high intensity fission neutron sources, proceedings of symposium on uses, etc., 5385
Komanowsky, M., drum-dried mushrooms, new product, 12584
Kommunist (periodical):
translations, 3589
Kommunist Ukrayiny (periodical):
translation, 9183
Koning, J. W., jr., comparison of 2 specimen shapes for short column test of corrugated fiberboard, 4440
Konkle, Ward W., agricultural science review, 2652
Konovalov, Nikolay V., obituary, 14809
Koos, William M., soil survey report, Crosby County, Tex., 6617
Kootenai Indians:
Confederated Salish and Kootenai Tribes of Flathead Reservation, lands held in trust for—
law, 17093
reports, 10311, 12932
Korea:
ancient novae and supernovae recorded in annals, and their significance in radio-astronomy, 4993
background notes, 14026
North—
church and state under Communism, 8750
economic reports, translations, 2876
Government structure, 13551
mineral industry, minerals yearbook chapter, 4771
political and sociological information, translations, 3591
yearbooks, 9098, 9119
Republic—
agricultural commodities, agreement, 11274
atomic energy, cooperation for civil uses, agreement, 8086
education, exchange programs, financing, agreement, 9733
gazetteer, official standard names, 6027
higher educational reforms, 4306
mineral industry of South Korea, minerals yearbook chapter, 1145, 16564
use of dollars rather than foreign currencies to pay U.S. expenses, GAO report, 812
South, *see* above, Republic.
Korean War, 1950–53, history of U.S. Army truce tent and fighting front, 13668
Kormanik, Paul P.:
new variety of sweetgum, 10588
predicting site index for Virginia, loblolly, and shortleaf pine in Virginia Piedmont, 8977
Kornegay, Marshall R., proceedings against, report, 4094
Korst, H. H., non-isoenergetic turbulent (Prt-1) jet mixing between two compressible streams at constant pressure, 9397
Kosmahl, H. G., optimum design of magnetic braking coils, 4910
Kosmos, *see* Satellites.
Kost, Keith, public health reports, 3427
Kotula, Leo J., research on selection of officer candidates and cadets, 15525
Koutsougeanopoulos, Vasileos, relief, 1899
Kowal, R. J., southern pine beetle, 7452

Kowalczyk, George J., enrollment for supplementary medical insurance, July 1, 1966, 16529
Krakow, Poland, American Research Hospital for Children, history and dedication, report, 7100
Krall, Allax M.:
Michailov criterion for exponential polynomials, 10956
root locus diagrams by digital computer, 15059
Kramer, Edward F., jr., physiological effects of 18-hour flight in F-4C aircraft, 12642
Kramer, Fritz, predicted acoustical performance of S-IC sound suppressor, 9525
Kramer, Lucy M., training health service workers, critical challenge, 14759A
Krammes, Jay S., streamflow records from San Dimas Experimental Forest, 4448
Kranz, Harry:
CAUSE [Counselor-Advisor University Summer Education] II prepares 2,000 to counsel youth, 662
taking stock YOC'S, 10435
Krause, Frank W., remarks, Feb. 4, 1966, 16986
Krawec, Roman, steady-state composition of low-density nonequilibrium hydrogen plasma, 17912
Krefting, Laurits W., birds of Isle Royale in Lake Superior, 14676
Krickich, Joseph:
mineral industry of—
Connecticut, 17840
New Jersey, 1137
Ohio, 2339
Kriebel, A. R., predicted and measured performance of 2 full-scale ducted propellers, 16599
Krieger, Medora H., geology of Prescott and Paulden quadrangles, Ariz., 818
Krislov, Joseph, early retirement provisions of State and local government retirement systems, 6610
Kristofferson, Alfred B.:
quantal interpretation of sensory channel uncertainty and reaction time, etc., 9427
successiveness discrimination, 9426
time constant involved in attention and neural information processing, 9402
Krivoy Rog Mining Institute, disagreement among scientists, USSR, 16395
Kromer, George W.:
talks, Nov. 18, 1965, 4290, 4292
trends in U.S. corn oil production and use, 7287
Krupenie, Paul H., band spectrum of carbon monoxide, 13859
Kruse, E. G., flow resistance in simulated irrigation borders and furrows, 13
Kryjanovskaja, Maria, relief, 8706
Krylov-Bogoliulov and Poincaré methods, *see* Equations.
Krypton, bromine dissociation rates, shock-tube investigation, 13821
Krypton isotopes, Kr-85, development as universal tracer, 8289
Kryter, Karl D., review of research and methods for measuring loudness and noisiness of complex sounds, 7741
Krzykowski, Kazimiers (Casimer):
relief, 12900, 14355
Krzywicki, Harry J., human body density and fat of adult male population as measured by water displacement, 14235
Ku Klux Klan, organizations, investigation, report, 17352
Kuchta, Joseph M., hot gas ignition temperatures of hydrocarbon fuel vapor-air mixtures, 17866
Kuenzi, E. W., buckling coefficients for sandwich cylinders of finite length under uniform external lateral pressure, 2059
Kuhlman, William F., relief, 8523, 11539, 11732
Kuklis, Andrew, mineral industry of Missouri, 2335
Kukpowruk River area, coal from Arctic northwestern Alaska, sampling and coking studies, 12240
Kung-Lee Wang, review of mineral industries (metals and nonmetals except fuels), 1170
Kupper, Hubert J., relief, 8533, 14366
Kurchatov, Igor V., Soviet physicist, story of his life, 16450
Kurdistan, national liberation movements, 1943–57, 14910
Kurds, religious activities, USSR study, 14801
Kuroiwa, Daisuke, application of thermal etching to study of surface abrasion in ice crystals, 1636
Kurtz, Robert L., experimental measurement of optical angular deviation caused by atmospheric turbulence and refraction, 11065
Kurzbach, Elmar, pharmacologic side effects of tranquilizers and antidepressants, 5325
Kurzhals, Peter R., system for inertial experiment pointing and attitude control, 15202
Kusler, David J.:
mineral industry of—
Maine, 1130
Virginia, 1149
Kutta-Joukowski condition, role in cloud systems with circulation, 12563
Kuwait:
foreign trade regulations, 7010
mineral industry of Kuwait-Saudi Arabia neutral zone, minerals yearbook chapter, 1129
Kwajalein Atoll, vertical distribution of water vapor, 12440
Kwok-Long Chan, *see* Chan, Kwok-Long.
Kyanite, and related minerals, minerals yearbook chapter, 13685
Kyaspert, Iokhannes, life and work, USSR, 13567
Kybernatike (periodical):
translation, 2196
Kyle, Hugh C., Jr., value of new construction in place, 5458
Kyle, Robert G., effect of wing leading-edge shape on aerodynamic characteristics of 67° swept wing-body model, 16691

L

L series, 11491, 14290
LaBau, Vernon J., aerial photo scale-protractor, 4445
Labels:
catalog of copyright entries, 597, 5839, 17603
fair labeling legislation, message from the President, 7068
fair packaging and labeling act—
hearings, 15980–981
reports, 15928, 17321
food retailing, private label products, 15218
foods, private labels, frequency of use by distributors, 16733
hazardous substances labeling act—amend—
hearings, 15979
reports, 15942, 16121
general information, 7449
text, 10549
pesticides, consumer protection, etc., 15462
tires, labeling guides adopted by Federal Trade Commission, 14647
treated seed, labeling requirements under Federal seed act, 4234
Labor:
Africa, 1960–64, bibliography, 6269
and management, partners in progress (remarks), 1321
assistance for workers under automotive products trade act of 1965, 12196

Labor—Continued
automation, skill, and manpower predictions, 17802
Boston large-trawler labor force, economic study, 10528
charts, statistical developments, 3106
code of Federal regulations, 5946–47, 7399
Commerce Department plays important role in labor's development (address), 14319
conditions—
Albania, 13622
Austria, 13623
Belgium, 13624
Bulgaria, 13625
Cyprus, 13626
Czechoslovakia, 13627
Denmark, 13628
East Germany, 13631
Federal Republic of Germany, 13632
Finland, 13629
France, 13630
Greece, 13633
Hungary, 13634
Iceland, 13635
Ireland, 13636
Italy, 13637
Luxembourg, 13638
Malta, 13639
Netherlands, 13640
Norway, 13641
Poland, 13642
Portugal, 13643
Rumania, 13644
Spain, 13645
Sweden, 13646
Switzerland, 12223
Union of Soviet Socialist Republics, 12224
United Kingdom, 12225
Yugoslavia, 12226
construction labor, employment outlook, 9245
cost of slaughtering hogs, 16723
developments abroad (periodical), 3107
factory workers, earnings and weekly hours, 4736
foreign conditions, new publications, 4738, 10879
foreign countries, economic policies and practices for relocating workers used by governments, programs, 4040
India's worker class status after independence, 4597
industrial working conditions, effect upon workers, USSR study, 998
international labor (periodical), 3078
job development and training for workers in health services, 14759
labor digests, 12223–226, 13622–646
Europe, 12218
labor force—
monthly reports, 2881, 3218, 4734
special report, 1095
women mobility study, 1095
making young workers safe workers, challenge to supervisors, 16519
man-hour output indexes—
concrete products industry, 4716
hosiery industry, 14968
man-made fibers industry, 7673
private economy, 4735, 17817
selected industries, 4717
manpower requirements and supply, productivity trends and unemployment (address), 6272
market, current employment market for engineers, scientists, and technicians, 664–665, 14567
migratory, laws, amend, hearings, 11822
migratory, study, authorization, report, 4207
mobility, operation of severance pay plans and their implications, 7665
Labor—Continued
monthly labor review, 3215
reprints, 1095, 4736–37, 7676, 10877
statistical supplement, 10882
Negro women in labor force, 11327
Negro worker in the West, 10876
old-age, survivors, and disability insurance covered workers, statistics, 1957, 1464
older workers, employment problems, hearings, 13029
Peace Corps, general information, 9608
plant location planning, a look at the labor side, Labor Statistics Bureau publications and studies, list, 14982
present-day Catholic social doctrine vis-a-vis working class, USSR, 16509
publications, price list, 16786
requirements for—
construction of federally aided highways, 4715
sewer works construction, 16534
various types of construction, 7674
reserve—
census of population, 1960, final report, 8371
population characteristics, census, 1960, 1705
safety, establishment in Nis, Yugoslavia, 16499
shortage, hampered Lake States pulpwood production, 14702
socialist pledges of workers in ministry of power engineering and electrification, USSR for 1966, 13491
statistics, interstate conference, proceedings, 17818
telephone system construction contract, REA, 12497
training of skilled workers, tasks of research institutes, 4669
unit cost in manufacturing, 1960–65, trends in 9 countries, 17810
USSR—
city in far north aims for healthier working conditions, 17769
controls, recent changes, 14372
developments, 16528
translations, 3618
workers, bonus fund in industrial enterprises, 4668
Western Europe, retraining and labor market adjustment, 1080
women and men workers in the economy, relative position, fact sheet, 6697
work stoppages, monthly, 3713
workers retiring before age 65, old-age benefits, 1470
youth publications, list, 10852
see also Child labor—Farm labor—Hours of labor—Manpower—Women—*also* headings beginning Labor.
Labor (obstetrics):
initiation of labor, conference proceedings, 9557
Labor and Public Welfare Committee, Senate:
additional professional staff members and clerical assistants, report, 4198
calendar, 3140
committee prints, 1951, 4230, 5819, 7227–28, 7231–32, 10362–363, 11826
hearings, 1949–50, 5818, 5820–21, 7226, 7229–30, 8786–87, 10360–361, 10364, 11822–825, 13225–227, 14498–501, 16192–196, 17589–594
investigations and studies, migratory labor, authorization, report, 4207
publications, guide, 10362
reports, 1911, 5784, 10319, 11744, 11747, 11749, 11779, 13123, 13129, 14468, 16067, 16072, 16081, 16104, 16133–134, 16140–144, 16161–162, 16167, 17459–460, 17496, 17498–499, 17525–528, 17531–532, 17535, 17540
Labor bureaus, etc., United States and Canada, directory, 7651

Labor Department:
absences of trainees enrolled in institutional programs, GAO report, 8993
agreement with National Council of Field Labor Lodges, etc., 17798
appropriations, 1967—
hearings, 8650, 14472
reports, 8626, 16151, 17350
Assistant Secretary, nomination of Stanley H. Ruttenberg, hearing, 14501
civil rights responsibilities, 4327
consumer services, transfer to Consumers Department, hearings, 15970
jobs filled through Federal Service entrance examination and its management intern option, questions and answers, 4698
Library, list of recent additions, 3507
manpower training facilities, selection, etc., in Chicago, Ill., GAO report, 12006
press releases, 3383
publications—
list, 3263
subject listings, 7645
regulations and interpretative bulletins, 14962
report, annual, 12195
safety training programs—
safe work guide SWG LS series, 7657
student reference, SR LS series, 9201, 10850
unemployment insurance program, extend benefits, etc., recommended amendments, 16181
Labor disputes:
airlines and employees, settlement, hearings, 14428
emergency board reports—
American Airlines, Inc., 17628
Eastern Air Lines, Inc., National Airlines, Inc., Northwest Airlines, Inc., Trans World Airlines, Inc., and United Airlines, Inc., 13284
national emergency disputes, 1947–65, under labor management relations (Taft-Hartley) act, 9332
railroad work rules dispute, settlement, law, administration, hearings, 5802, 13197
see also Strikes and lockouts.
Labor force, *see* Labor.
Labor hygiene, *see* Hygiene.
Labor laws:
and practices in—
Libya, 16527
Malaysia and Singapore, 4713
Tunisia, 4714
and their administration, convention proceedings of International Association of Governmental Labor Officials, discussion, 10846
know your employment rights under law, 10841
migratory labor laws, amend, hearings, 11822
National Labor Relations Board, case developments, quarterly report, 3445
procedural reform, 1st step toward more effective policy (address), 1322
State—
affecting women—
Arkansas, 14088
California, 5244
Georgia, 14089
Idaho, 14090
Indiana, 2630
Iowa, 6699
Maine, 8115
Maryland, 6700
Massachusetts, 5245
Michigan, 8116
Minnesota, 5246
New Hampshire, 8117
New Mexico, 5247
New York, 6701
North Carolina, 1555
Labor laws—Continued
State—continued
affecting women—continued
North Dakota, 14091
Ohio, 11325
Pennsylvania, 14092
summary, 5243, 12570
Utah, 2631
Vermont, 1556
Virginia, 14093
West Virginia, 14094
against discrimination in employment because of age, 10847
age discrimination prohibited, table, 9199
labor relations acts, summary, 4706
legislation in 1965, 4710
mediation laws, summary, 4707
minimum wage laws, summary, 5251
State and Federal—
legislation, 1963, annual digest, 4704
legislation, 1964, annual digest, 7652
status of agricultural workers, 4705
union regulatory provisions, summary, 4708
wage payment and collection laws, summary, 9198, 12203
see also Child labor—Employers' liability and workmen's compensation.
Labor-management relations, *see* Industrial relations.
Labor-management reporting and disclosure act of 1959:
amendment of Taft-Hartley act, summary, 2462
as amended, text, 4695
regulations and interpretative bulletins, 14962
repeal sec. 705(b), report, 1833
summary of operations, 7648
Labor markets, *see* Labor.
Labor offices, *see* Labor bureaus, etc.
Labor organization, *see* Labor unions.
Labor relations, *see* Industrial relations.
Labor standards:
fair labor standards act—
agriculture, requirements for child labor, 11309
amendments of 1966—
hearings, 5818, 7163, 8680, 10266
law, 15768
reports, 7103, 10144, 15809, 16104
American Samoa minimum wage rates, 5218
child labor provisions, guide, 14070
compliance survey, 14071
computing overtime pay, 6693
construction industry coverage, 9761
defining and delimiting term talent fees, 14074
employment of full-time students in retail or service establishments at special minimum wages, 14072
employment, student workers, 14073
equal pay for equal work, 5221, 18142
farm workers, extending minimum wage, 5220
farm workers under act, 18141
forestry or logging operations, application, 11312
general coverage of wage and hours provisions, 11310
handy reference guide, 16897, 18140
highlights of act, as amended, 16898
hours worked, 11311
overtime compensation, 16899
Puerto Rico minimum wage rates—
retailing, wholesaling, and warehousing industry, 5217, 5225
rubber products industry, 5219
records to be kept by employers, 9763
reports to Congress as required by sec. 4(d), 5222–23.
retail trade, minimum wage and maximum hours, effects of 1961 amendments, 5224

Labor standards—Continued
fair labor standards act—continued
retirement credit for Federal employees' service with North Carolina, hearing, 11677
sheltered workshops, questions and answers, 15417
written assurances with respect to hot goods, 9762
legislation and equal employment opportunity (remarks), 12571
Public Roads Bureau labor compliance manual, amendment, 15315
safety standards (periodical), 3487
women, improvement of standards for (remarks), 16911
Labor Standards Bureau:
bulletins, 1084, 4702–4, 7651–52, 10846, 14965, 16517–518
fact sheet (series), 4705–8, 7653, 9198–99, 10847, 12203–206, 17804
safety standards (periodical), 3487
selected publications, list, 7658
youth publications, list, 10852
Labor Statistics Bureau:
BLS report series, 1088–89, 2289–95, 4713–17, 6255, 7662–63, 9204–5, 10854–857, 12207–209, 13591, 14968–969, 16527–528
bulletins, 1090–94, 2296–2303, 4718–33, 6256–69, 7664–70, 9206–9336, 10858–875, 11210–220, 13593–620, 1490–980, 16529–537, 17808–815
foreign labor conditions, new publications, 4738, 10879
productivity and technological developments as of Mar. 1, 1966, selected publications, list, 10881
publications, catalog, 9337, 16538
regional report, 9338
seasonal factor method (1966), description, application on electronic computer, 13592
studies in industrial relations, 1954–65, directory, 2304
Labor Statistics, Interstate Conference on, *see* Interstate Conference on Labor Statistics.
Labor turnover:
employment and earnings (periodical), 2881
factory, monthly release, 2906
reasons at Kaluga turbine plant and other enterprises, USSR, 17773
women, 1565
Labor unions:
African unions, nation-building and international free trade union movement (paper), 4580
agreements with Post Office Department, 17989
building trades, wages and hours, 13609
Bulgarian Central Council of Trade Unions, officers, members, etc., 14848
conventions, 1966, list, 7678
directories—
Africa, 16384
Europe, 4581
national and international, in U.S., 12217
fisherman's and fish shore workers' unions in United States, list, 11972
labor management reporting and disclosure act summary of operations, 7648
local-transit operating employees, wages and hours, 9333
national, local convention representation and constitutional amendments, 1079
printing industry, wages and hours, 12216
State regulatory provisions, summary, 4708
trade unions and manpower development and training act, 10845
union-management cooperation, major collective bargaining agreements, 9206
Labor unions—Continued
union security and right-to-work, selected readings and references, list, 2286
welfare and pension plans disclosure act, amend with respect to filing of copies and making affidavits, report, 15896
welfare and pension trust funds, participation of retired employees, etc., hearing, 17590
see also names of unions.
Laboratories:
all-Union Scientific-Research Institute of Railway Hygiene, report, 16391
Central Laboratory for Ventilation and Heating Industry, regulation, Eastern Europe, 7545
independent, conditions for coverage of services under health insurance program, 9652
investigation of organophosphorus compounds, methods, USSR study, 6120
radiological health mobile, training laboratory, 15300
research on team training in CIC activities, 12421
standards, use of peak ac-dc voltage comparator, 5014
viruses of laboratory rodents, research, 6486
see Radiation laboratories—Research laboratories — Space laboratories — *also* names of laboratories or places where located.
Laboratory animals, *see* Animals.
Laboratory apparatus and supplies, Federal item identification guides for supply cataloging, supplements, 2936
Laboratory studies of open-channel flow (series), 825
Labrador, sailing directions, 11140–141
Laces (fasteners):
tool pre-tensions covers prior to lacing, 13737
Lacey, Robert E., desalination by electrosorption and desorption, 16373
Lackawanna, County, Pa., geology, Ransom quadrangle, 13397
Lacquer and lacquering:
current industrial reports, 2817, 15587
Federal test method standard, 4397
synthetic lacquers, used for painting mfg articles, occupational hygiene, USSR study, 1028
Ladders and other means of access used on vessels in shipyards maritime safety data, 16521
LaFevers, Earl V., ability of pressure-suited subjects to perform lunar scientific tasks, 1239
Lagasca, Arturo D, jr., relief, 16055
LaGuardia Airport, N.Y., aircraft accident, 3950
Laguna Atascosa National Wildlife Refuge:
birds, 14664
general information, 16301
Laissez faire, strenthening free enterprise, 1965 annual report, Small Business Administration, 15325
La Jolla, Calif., Fishery-Oceanography Center research facilities, 2038
Lake, Ralph C., applications of rate diagrams to analysis and design of class of on-off control systems, 10952
Lake, *see* name of lake, except when occurring as first word of name of town, etc.
Lake County, Mont., geology of damsites on Flathead River, 2105
Lake currents, currents at Little Lake Harbor, 9339
Lake Mead National Recreation Area, general information, 6511
Lake States, *see* Great Lakes States.
Lake States Forest Experiment Station:
forest genetics and related research, annotated bibliography, 14715
publications, 1965, list, 10557

Lake States Forest Tree Improvement Conference and Genetics Workshop of Society of American Foresters, joint proceedings, 14716
Lake Survey research reports, 9339–40
Lake Valley, mining district, N. Mex., jasperoids, 4513
Lake Woodruff National Wildlife Refuge, general information, 14670
Lakes:
central Asia, origin, locations, etc., USSR study, 1061
Columbia River basin, change of storage, 3543
ice cover of arctic proglacial lakes, 9887
see also names of lakes.
Lall, Tilak R., Interstage adapter panel flutter on Atlas-Centaur AC–2, AC–3, and AC–4 vehicles, 1240
Lamar, John E., aerodynamic-center, considerations of wings and wing-body combinations, 16662
Lamar, William L., organic acids in naturally colored surface waters, 12030
Lamas, Juan F. A., relief, 11702
Lamb, Ann M., technology and manpower in design and drafting, 17800
Lamb, Lawrence E.:
hypokinesia secondary to chair rest from 4 to 10 days, 6811
influence of—
lower body negative pressure on level of hydration during bedrest, 9863
manned space flight on cardiovascular function, 14196
Lambert, Robert W., documents on disarmament, 109
Lamborn, Emiley M., remarks, Apr. 28, 1966, 9203
Lambrinos, Elias, relief, 16020
Lambs:
crop, 6658, 14035
on feed, 6663–64, 8091
Laminar flow, *see* Flow.
Laminated materials:
apparatus measures thermal conductivity of honeycomb-core panels, 7783
drill bit design assures clean holes, 4879
Echo II metal-polymer laminate, mechanical and physical properties, 15140
effect of core thickness and moisture content on mechanical properties of 2 resin-treated paper honeycomb cores, 4463
flexural rigidity, techniques for measurement, 7826
hollow needle used to cut metal honeycomb structures, 11036
honeycomb material, cutting to specified depth with adjustable knife, 11029
laminated ferrite memory, 9393
production of honeycomb structures from stainless steels and titanium alloys, USSR study, 16424
see also Plastics.
Lamination, transformer, hysteresis and eddy-current losses, application of Poynting theorem, 1276
LaMountain, Bernard L., relief, 5571, 5626
LaMoure, Lawrence J.:
commercial printing and manifold business forms, 8332
converted paper and paperboard products, except containers and boxes, 8331
greeting cards, bookbinding, etc., census of manufactures, 1963, industry statistics, 6900
newspaper, periodicals, books, and miscellaneous publishing, 3892
paperboard containers and boxes, 5441
pulp, paper, and board mills, 3891
Lampreys:
sea, control with toxaphene, 11977
sea, general information, 2040
Lamps:
circular, explosion-proof, provides uniform illumination, 9468
discharge, electrodeless, is easily started, has high stability, 4852
Federal item identification guides for supply cataloging, supplements, 2936
see also Electric lamps.
Lancaster, Emmer M., guide to Negro marketing information, 16990
Lancaster, Pa., commodity transportation survey, production area series, 9952
Land:
central Great Plains—
how to prepare land and plant trees for windbreaks, 4488
windbreaks, how to use trees to protect land, 4485
conservation and utilization, amend Bankhead-Jones farm tenant act—
hearing, 11638
report, 15916
cropland, 1963 conversion program, Dec. 31, 1965 status, 11344
development handbook for title 10, mortgage insurance, 11922
exchanges, cash equalization, hearing, 11640
hydrologic effects of land use (series), 17725
improvement, large-scale development to obtain high and stable yields of grain and other agricultural crops, USSR study, 12156
improvement to obtain high and stable yields of grains, etc., USSR study, 10812
interstate sales full disclosure act, hearings, 16178
La Jolla, Calif., donated by University of California, use for marine biological research laboratory, law, 404
land and water conservation fund, 1st year and half, 15255
law of open space, National Capital region, 1302
long-term leasing by Government contractors, Defense Dept., GAO report, 16344
number of farms and land in farms, U.S. 1959–66, by States, 1964–66, 6662
planning with respect to aircraft noise, Air Force manual, 9850
resource regions and major land resource areas of United States, 3744
resources upper Mississippi River, comprehensive basin study, 7331
retirement programs, aggregate economic effects, linear programming analysis, 14162
Rumania, utilization, research, 14886
Tennessee Valley, inventory of land and its use, 15390
turning cropland into recreational use (remarks), 14152
use—
area-oriented multiple use analysis, 8971
Capitol grounds, formulate long-range plan, report, 16148
intensity standards, LUI scale and zoning (paper), 14631
land exposed to aircraft landing and takeoff noise, study, 7732
what about land in Alaska? 6275
see also Public lands.
Land banks, *see* Federal land banks.
Land burning, *see* Burning of land.
Land-grant colleges:
agricultural information staffs, 5926
and State universities, statistics, 1965 report, 4317
in house of science there are many mansions (address), 3754

Land Management Bureau:
appropriations, 1967, hearings, 7113
careers in resource management, forestry, administration, minerals, etc., 12227
information bulletin, 6275
press releases, 3384
Land operation facilities, Navy design manual, changes, 1569
Land reforms, agrarian reforms in United Arab Republic, Soviet review, 16416
Land scrip, satisfaction of scrip rights, etc., amend act, hearings, 13044
Landing (aircraft):
airplanes with low-aspect-ratio wings, ground effects, 16663
approach of very large airplanes, inflight and ground-based simulation of handling qualities, 17884
equipment, Federal item identification guides for supply cataloging, supplements, 2940
landing mat, design curves for runways to be surfaced, 10441
noise, land exposed, optimum use, study, 7732
Til aluminum airplane landing mat—
engineering tests, revised design criteria, 7337
subgrade stabilization with portland cement, etc., 7333
X-15 landing loads, summary, 4979
Landing (spacecraft), *see* Spacecraft.
Landing gear:
bogie, ground-run tests in water and slush, 13827
skid materials, drag and wear characteristics, 6469
Landis, B. J., wireworms on irrigated lands in the West, 11351
Landrum, Emma J., nacelle orientation effect on aerodynamic characteristics of arrow wing-body configuration, 6449
Landsberg, H. E., interdiurnal variability of pressure and temperature in conterminous U.S., 9767
Landscape architects:
campus landscape, 17620
employment outlook, 9246
Landscaping:
and scenic enhancement of Federal-aid highways—
costs, 1967 estimate, instruction manual, 11204
report, 546
Landslides:
earthquake of Mar. 27, 1964—
Valdez, Alaska, effects, 6036
Whittier, Alaska, effects, 4525
Landy, David, halfway house, sociocultural and clinical study of Rutland Corner House, transitional aftercare residence for female psychiatric patients, 1529
Lane, Elizabeth, agricultural economics research, 2647
Langbein, Walter B., river meanders, theory of minimum variance, 6031
Langebartel, Ray G., linear prediction on finite past of multivariate stationary process, 12373
Langley hotshot tunnel:
calibration for Mach numbers from 12 to 26, 6446
stagnation enthalpy, experimental study, 7827
Langley Research Center, low-frequency noise facility, 4948
Language and languages:
artificial languages, Asia, Africa, Oceania, America, classification, Library of Congress, 4741
breaking the sound barrier (address), 1078
classification, Library of Congress, modern European languages, 6276
cybernetic methods, Hungarian study, 4674
Language and languages—Continued
cybernetics hampered by inadequate study of linguistics, USSR study, 9104
disorders, summary of progress, 1314
foreign languages and your career, 10876
index, classification, Library of Congress, 4740
interlinguistics problems, USSR study, 7609
machine language and data processing developments, USSR study, 2168
mixed languages, Asia, Africa, Oceania, America, classification, Library of Congress, 4741
mother tongue of foreign born before coming to U.S. 1960 census of population, 5501
national defense education act—
language development program, research completed, etc., list, 1979
teachers of modern foreign languages, institutes, manual, 5877
principles of segmentation of speech stream, 939
source materials for secondary school teachers, 7321
teaching electronic machines to understand language USSR study, 900
teaching foreign speech, presentation of subject matter, USSR study, 10799
see also Electronic computers—*also* names of languages.
Language Institute, Defense, *see* Defense Language Institute.
Language of ants, USSR, 917
Lanham, Fritz Garland, Federal Office Building, *see* Fritz Garland Lanham Federal Office Building.
Lankford, J. D., natural gas liquids, 1154
Lanner, Ronald M., phenology of Acacia koa on Mauna Loa, Hawaii, 10577
Lansing, Donald, L., displacements in elastic half-space due to moving concentrated normal load, 12370
Lanthanides:
electrodeposition, 5394
extraction and separation with tertiary amine, 13693
Lanz, Larry J., effects of air surcharge on bearing capacity of soft cohesive soils, 8863
Laos:
refugee problems, hearings, 1947
Vietnam boundary, study, 11255
LaPage, Wilbur F., success of campgrounds studies as guide to recreation planners, 10568
Lapel buttons:
gold star, for widows, etc., of members of Armed Forces who lost their lives in war or cold war incidents—
law, 15717
reports, 11631, 13177
Lapides, Jadwiga (Ita):
relief, 8537
Laplace transforms, *see* Transformations (mathematics).
Lapping machines, device spot-laps spheres to very close tolerances, 9482
Lard, production, months, 9738
Larmon, Elizabeth A., Americans at mid-decade, 3927
Larrabee, David M., bedrock geology of Grand Lake area, Maine, 815
Larson, Donald K., variability of wheat yields in Great Plains, 14538
Larson, Leonard P., mineral industry of Arizona, 2321
La Sal quadrangle, Utah and Colo., geology and uranium-vanadium deposits, 7486
Laser beams:
modulated, use for communication, system, 1209
use in welding bilayer sheet, USSR study, 16463

Lasers:
applicability and possibilities, NASA facts, 17888
bibliography, 15089
prospects for laser and optical communications, USSR study, 12122
quantum electronics, physical problems, 6151
Lasky, Benjamin, communications and electronics, supp., 5320
Lasley, Floyd A., coordinating fluid milk supplies in Pittsburgh market, 6760
Lassen Volcanic National Park, general information, 6512
Lastra, Jose S., relief, 1890
Las Vegas, Nev.:
aircraft accident, 282
ground-water basin, available water supply, 828
Latches:
latching mechanism operates in limited access area, 13773
magnetic, provide positive overpressure control, 12320
Lategola, Michael T., aeromedical assessment of human systolic and diastolic blood-pressure transients without direct arterial puncture, 15558
Lateral sclerosis, *see* Amyotrophic lateral sclerosis.
Lateral sloshing, *see* Sloshing.
Lateral stability, *see* Stability—Stability of aircraft.
Lathers, employment outlook, 9219
Lathes:
chuck key incorporates safety feature, 11035
copying, for shoes, temporary suspension of duty, continue—
law, 10088
reports, 8556, 10299
device facilitates centering of workpieces in lathe chuck, 12318
swiveling jaw concept for holding irregular pieces, 13756
turret, tool post modification allows easy cutting-tool alignment, 11000
Lathrop, George D., Chagas' disease study in individuals bitten by North American Triatomida, 92
Latin America:
agricultural development, role of Inter-American Development Bank, hearing, 17366
agricultural production for 20 countries, indices, 7289
alliance for progress—
American partnership, 4578
Partners of the Alliance program, 11653
report, July 1–Dec. 31, 1964, 1797
development and Western Hemisphere trade—
hearings, 455
subcommittee report, 7051
directory of U.S. specialists in social sciences and humanities, biobibliographies, 10892
excess property, use by U.S. foreign aid program, report, 8628
glossary of abbreviations used in press, 10750
Latin American, African, and Asian peoples tricontinental conference, staff study, 10358
market profiles, 12775
mineral industry, regional review, minerals yearbook chapter, 9368
Peace Corps volunteers, 12452
survey of efforts for developing human resources, 5155
United States relations, regional and other documents, 5692
Latitude, high, polar aurorae, geomagnetic disturbances, and ionosphere investigation, 4992
Latsis, Evangelia G., relief, 5632, 11548, 11724
Lattu, Onnie P.:
remarks—
Dec. 7, 1965, 1388
Mar. 1, 1966, 6556
May 23, 1966, 11161
Latvia, industrial plants, cybernetic methods applied to production management, USSR study, 12185
Launch vehicles, *see* Spacecraft.
Launching facilities:
aircraft equipment, Federal item identification guides for supply cataloging supplements, 2940
minimax control of large launch boosters, 15053
Nike-Hercules missile launching and handling rails, management control, Army Missile Command, GAO report, 17707
Launching of surface waves on axial-cylindrical reactive surface, 4928
Laundry and laundries:
census of business, 1963, laundries, cleaning plants, related services, 203
coin operated and nonautomatic, bibliography, 11221
industry, study of problems and prospects, 1693
Lauritizen, C. W., rain traps for intercepting and storing water for livestock, 14133
Lava:
chemistry of lavas of 1959–60 eruption of Kilauea Volcano, Hawaii, 7488
Kilauea Iki lake, petrology, 12026
petrography, 1959–60 eruption of Kilauea Volcano, Hawaii, 4524
Lava Beds National Monument, general information, 17959
Lavallee, Fernand, selling in Italy, 340
Lavapies, Nermin D., relief, 15824, 17458
Lavender, Robert E., Monte Carlo approach to touchdown, dynamics for soft lunar landing, 1279
Law:
East European legal journals, abstracts, 2636
general interest, summary, 89th Congress, 539
Judge Advocate legal service, Army pamphlets, 122–124, 1643, 5352–59
reserve component information, 124
semiannual index, 5354
law and poverty, national conference, June 23–25, 1965, proceedings, 8822
legal services—
neighborhood, 16904
rural community action program, 16219
to poor, programs, guidelines, 7279
procurement legal service, Army pamphlet, 5367, 9899, 11402, 12658, 15513
cumulative index-digest, tables of materials digested, 12657
publications, price list, 15265
slip laws (private) 89th Congress, 370–394, 5569–75, 7020–28, 8449–59, 11533–548, 12802–818, 14335–367, 15668–697, 17066–90
slip laws (public) 89th Congress, 395–449, 1787–88, 3428, 5576–90, 7029–47, 8460–81, 10058–91, 11549–594, 12819–839, 15698–777, 17091–149
slip laws, admissibility in evidence, provide—
law, 12824
reports, 5656, 16082
some legal aspects of U.S. savings bonds, 2549
Swedish research in Soviet legal terminology, 14901
see also Codes of law—Criminal law—International law—Labor laws—Military law—Statutes—Statutes at large—*also* subjects.

Law enforcement:
career opportunities, Treasury enforcement agent, 5196
enforcement agencies, activities relating to small business, hearings, 15990–991, 17395
Federal assistance to State and local governments—
act of 1965, hearings, 582
amend 1965 act, hearings, 14429
greater freedom for enforcement agencies? national debate proposition for colleges, excerpts, etc., 466
officers, guide to laws enforced by Alcohol and Tobacco Tax Division, 16300
State officials enforcing food, drug, etc., laws, directory, 5967
Law of open space, National Capital region, 1302
Law, Private, International Institute for Unification, *see* International Institute for Unification of Private Law.
Lawing, Pierce L., study of stagnation enthalpy in Langley hotshot tunnel, 7827
Lawns, weeds control with herbicides, 38
Lawrence, Mass.:
area wage survey, metropolitan area, 14975
commodity transportation survey, production area series, 8339
Lawroski, Stephen, reactor fuel processing, review of recent developments, 3452
Laws, *see* Codes of law—Labor laws—Law—*also* subjects.
Lawson, Wilmer M., jr., linear class B audio amplifier output-power capability, analysis of load-impedance and waveform effects, 16758
Lawyers:
corporate voluntary balance of payments program and lawyer (remarks), 11511
employment outlook, 9247
fees for services in proceedings before administrative agencies, arbitrary limitations, remove—
hearing, 11819
report, 13124
legal careers in Federal taxation, 857, 17741
Navy, rewarding career, 9189
registered to practice before Patent Office, lists, 12448, 17982
right of persons to be represented before Federal agencies—
law, 433
report, 11763
Lax method, *see* Equations.
Lay leaders, divine worship, Marine Corps, handbook, 7685
Layman, D. C., remote handling of mobile nuclear systems, 5410
Layman's guide to individual rights under United States Constitution, 4227
Layout, *see* Plants (industrial)—Stores.
Lazaro, Eric J., relief, 15817, 17439
Lazarow, Arnold, diabetes literature index, 7928
Lazorchick, Daniel C., paper, Dec. 5–7, 1965, 4580
Lea County, N. Mex., northern, recharge studies on High Plains, 10650
Leaching:
copper sulfides in ammoniacal pulps at elevated temperatures and pressures, 13692
extraction of alumina by leaching melted and quenched anorthosite in sulfuric acid, 9369
manganese from Georgia umber ore by sulfuric acid-ferrous sulfate process, 1163
Lead:
contamination of environment, hearings, 13228
environmental lead contamination, symposium, 8002
Lead—Continued
high concentrations in Guilmette Formation and Simonson Dolomite of Devonian age in Pequop Mountain and Wood Hills, Nev., 16355
industry, mineral industry survey, monthly, 3108
lead-antimony grid alloys, intergranular corrosion, investigation, 16763
mine production, mineral industry survey, monthly, 3109
ores, census of mineral industries, 1963 industry statistics, 15575
Lead carbonates, anhydrous, heats of formation and free energies, 13698
Lead sulfate, anodic oxidation of basic sulfates of lead, plate materials of lead-acid cell, 12429
Lead tellurides, thermoelectric bonding study, 4824
Leadership:
Air Force officers, 14167
aspects during armed struggle in summer of 1942, USSR, study, 1056
attributes, integrity, intelligence, convictions, and courage (remarks), 5553
become a leader, apply for OCS, Army, 14219
challenge of macro-leadership (remarks), 6673
essential qualities for success (remarks), 11523
in democratic society (remarks), 337
naval, Raymond A. Spruance, study in command, 12412
perfecting in higher and secondary specialized education, USSR study, 16470
training for, career in Office of Education, 17627
Leading edge, *see* Wings (aircraft).
Leaf cast, needle blight of southern pines, 7451
Leaflets, *see* names of departments, etc., issuing leaflets—*also* subjects.
Leak detectors:
locator for vacuum jacketed pipelines eliminates need for removal of outer jacket, 16635
sniffer used as portable hydrogen leak detector, 13791
Leakage (electrical):
instrumentation systems, minimum permissible leakage resistance, established, 15127
Leakage test kits, *see* Testing kits.
Leaks:
fluid, capacitive system detects and locates, 6409
gas, in brazed areas, eliminated by electroplating, 16637
high-pressure, low temperature electrical connector makes no-leak seal, 7759
vacuum test fixture improves leakage rate, measurements, 12326
Lean-to shelters, *see* Air raid shelters.
Learn, baby, learn, 16236
Learning:
aids, elementary arithmetic, 4301
and overlearning, physiological correlates, 15251
babies look and learn, guide for parents, 6772
babies touch, taste, and learn, guide for parents, 6771
immediate retrieval of verbal series as function of stimulus grouping, 3785, 9861
incremental or one-trial learning of verbal series, 83
indirect paired associates, effectiveness and student acceptance, 7972
individual and group, comparison, 14994
learning about learning, conference report, 8847

Learning—Continued
learning different shapes, games for children over 2 years old, guide for parents, 8165
programmed—
and its prospects, USSR study, 6217
theory and practice, USSR study, 6206
USSR study, 10734
rights granted to institutions of higher learning, suggested expansion, USSR study, 14924
self-learning pickups, self-adaptive systems, and other problems of technical cybernetics, USSR study, 13473
through touch, guide for parents, 9830
use of cuing in training tasks, phase 2, 7971
see also Self-organizing systems.
Learning machines, *see* Teaching machines.
Learning task, *see* Psychology.
Leases:
buildings and land, long-term leasing by Government contractors, Defense Dept., GAO report, 16344
geothermal steam deposits, issuance of leases—
hearings, 13047
report, 15933
long-term, on San Xavier and Salt River Pima-Maricopa Indian reservation, reports, 14397, 17517
motor vehicle leasing for use of Government contractors, Defense Dept., GAO review, 16348
oil and gas lease—
New Mexico, reinstate, 17089
Wyoming, reinstate, report, 17491
Post Office Dept. for real property, extend authority—
hearings, 10370
law, 17129
reports, 12941, 13161, 16127
public land leasing to States, etc., amend act—
law, 11566
report, 11740
Pyramid Lake Indian Reservation, 99-year term—
law, 10059
report, 8599
railroad coal leasing limitations, repeal—
hearing, 13219
report, 13167
tobacco acreage allotments, additional time to file—
law, 11580
reports, 10222, 11765
Least squares:
factoring to fit off diagonals, 9914
weighted process, error analysis, to determine lunar gravitational field, 17923
Leather, hides and skins:
cattle hide exports, hearing, 11637
cattle hides, export controls, (remarks), 8429
footwear upper leather, visual inspection guide, military standards, 11850
leather and leather products, census of manufactures, 1963, manufacturing plants, location, 12698
leathers, Federal item identification guides for supply cataloging, supplements, 2939
miscellaneous leather goods, census of manufactures, 1963, industry report, 5443
personal leather goods, current industrial reports, 2817
products, commodity transportation survey, shipper series, 212
tanning, footwear, industrial leather goods, census of manufactures, industry report, 3896
Leave of absence:
additional accumulation in certain foreign areas—
hearings, 14410
report, 12968
experience under sick-pay plans, Great Britain, 18101
Federal seafaring employees, additional leave—
report, 17260
report of Civil Service Commission, 14435
Government employees not to be charged for absence as result of hostile action abroad, report, 16157
Government officials and employees, FPM manual supplement, 2951
reemployment leave travel benefits granted civil service employees of Defense Department and other agencies, GAO report, 8998
uniformed service members voluntarily extending tour of duty in hostile fire area, special 30-day period of leave, reports, 12969, 17509
Yosemite National Park employees, validate action extending 1955 leave years—
law, 8472
reports, 7178, 8591
Leaves, greenery, retention of radioactive dust, USSR study, 16403
see also Defoliation.
Lebanon, Ohio, water renovation pilot plant, general information, 17670
Lebanon:
background notes, 18111
crisis, 1958, U.S. marines participation, historical pamphlet, 10897
economy, basic data, 1774
selling in Lebanon, 11520
Lech, Marie M., administrative aspects of hospital central medical and surgical supply services, 15282
LeClair, Marie J., labor in Africa, 6269
Leconteits, *see* Ammonites.
Lectures, *see* Addresses, lectures, etc.
Lederer, P. S., earth's field static calibrator for accelerometers, 5011
Lee Chung Woo, relief, 8513, 11546, 11722
Lee, Douglas H. K., evaluation of thermal environment in shelters, 12467
Lee, George, Apollo afterbody heat transfer and pressure with and without oblation, 16683
Lee Hi Sook, relief, 473
Lee, Richard P., flight evaluation of Servoaltimeter displays for air traffic control radar beacon, 7975
Lee, Richard S., aerodynamic model for low-altitude rocket exhaust plume, 16762
Lee, Robert S., ten-bit analog-to-digital converter, 17925
Lee, Ulysses, employment of Negro troops, 13669
Lee, Wilford J., foreign trade regulations of Portugal, 17056
Lee, William O., effect of annual applications of diuron on seed yields of grasses, 14163
Lee, Ill., railroad accident, 12077
Lee County, Va., economic and resource, development, summary, 2611
Leese, Grady W., rocket-blast-resistant materials, etc., 10440
Leeward Islands, agricultural products, demand, supply, and imports, projected levels to 1975, summary and evaluation, 11865
Legal procedures, *see* Law.
Legal services, *see* Law.
Legislation:
Budget Bureau legislative policy, hearing, 14404
enacted in 1965 relating to veterans and servicemen, 6609

Legislation—Continued
fruit and vegetable marketing orders, Federal and State, 17949
legislation authorizing appropriations and establishing revolving funds as of Mar. 1965, 1886
legislative achievements in health, education, and welfare, 4538
major legislative actions, 89th Congress, 4043, 14378, 17154
State, program of Advisory Commission on Intergovernmental Relations, 16916
summary, 89th Congress, 1st session, 541
Ways and Means Committee, House, history of—
H.R. 4750, interest equalization tax extension act of 1965, 4150
H.R. 8371, excise tax reduction act of 1965, 89th Congress, 1875
H.R. 8464, public debt ceiling, 89th Congress, 532
see also Labor laws—Law—*also* subjects.
Legislative appropriations, *see* Appropriations.
Legislative bodies, State legislatures, apportionment, report, 5776
Legislative reorganization act, *see* Congress of United States.
LeGuen, J. C., yellowfin tuna fishery in eastern tropical Atlantic, 750
Lehman, Eileen F., who is this child? 10432
Lehman Caves National Monument, general information, 1332
Lehmer, Donald J., Fire Heart Creek Site, 16827
Lehr, Marianne, Moré, basic course, 14031
Lehrman, Hal, rebellion in Russia's Europe, fact and fiction, 585
Leibecki, Harold F., argentic oxysalt electrodes, 4952
Leidenfrost phenomenon:
creeping flow solution, 2419
metastable states, 7824
Leinenbach, Paul W., economy of Denmark, 4012
Leitch, Harold, extraction of alumina by leaching melted and quenched anorthosite in sulfuric acid, 9369
Leko, Robert W., analysis of transient flow of hydrogen in heated passages in laminar-turbulent transition region, 15200
Lend-lease operations, 1964 activities, 6628
Lending operations, *see* Loans.
Lendo, A. C., record low tide of Dec. 31, 1962, on Delaware River, 13415
Lenin prizes:
commentaries on entries, 6231
entries, USSR studies, 9095
interview with winner, Viktor Glushkov, about cybernetics, USSR, 14857
mathematics, winner, Nikolya V. Yefimov, 14881
science and technology—
awards, 12150
nominations, USSR, 6229
recipients, 9172
works entered in competition, 1064
Leningrad, Russian SFSR, party organization calls for improvement in research and planning, 17776
Leningrad Planning Institute, personnel and economic problems, 14861
Leninism, *see* Communism.
Lenses:
catadioptric telescope with mirror-lens correction, USSR study, 9080
cylindrical lenses as screen for producing stereoscopic television pictures, 7762
offset, add versatility to phototypesetting machine, 9480
optical absorption coefficients of fused silica, 6440
Leopold, Luna B., channel and hillslope processes, semiarid area, New Mexico, 12019
Lepidoptera, *see* Microlepidoptera—Moths.
Lepisma saccharina, *see* Silverfish.
Lerner, M. W., plutonium and uranium in nuclear fuel cycle, 6854
Lesage, Alan M., employment of cross circulation and heat exchangers to induce hypothermia, use in study of central nervous system changes, 3780
Leslie, Edward A., basic data on economy of United Kingdom, 14325
Leslie, John M., effects of time delay in visual feedback loop of man-machine system, 15063
Lesser, Arthur J., address, Oct. 19, 1965, 277
Lesser Sunda Islands, sailing directions, change, 11145
Lessing, Henry C., atmosphere reentry guidance scheme for return from manned Mars mission, 9535
Let their experience work for you, Neighborhood Youth Corps, 2281
Letters from the captain's wife, 13346
Lettuce:
appearance and decay after treatment with ozone, 16928
do lettuce buyers exert oligopsony power? 4281
Leukemia:
antileukemic medicinal preparations, USSR study, 6243
studies of leukosis enzootica bovis, 13993
Leukosis, *see* Leukemia.
Leung, K. C., effects of alcohol and drugs on rats under ambient and low temperatures measured by avoidance response, 5315
Levadi, Solomon S., claim against U.S., 12873
LeVan, Herbert P., extraction of manganese from Georgia umber ore by sulfuric acid-ferrous sulfate process, 1163
Leveling, *see* Surveying.
Leveling instruments, *see* Levels.
Levels, equipment for leveling and leveling operations, control, 10646
Levi, David W.:
crosslinking, thermal and mechanical properties of thermoplastic and phenolic resin systems, 10396
dielectric properties of polymers, bibliography, 13255
Levine, Eugene, nursing personnel, 13969
Levine, Jules D., adsorption of cesium on insulators, 4810
Levine, Nathan, relief, 10112
Levison, William H., studies of multi-variable manual control systems, two-axis compensatory, etc., 16593
Levy, S. David, law of open space in National Capital region, 1302
Lewis, Alan G., copepod crustaceans parasitic on elasmobranch fishes of Hawaiian Islands, 9567
Lewis, David W., kinematic transformations of several mechanisms, 12270
Lewis, Franklin B., bacillus thuringiensis as control agent for gypsy moth, 17699
Lewis, Gertrude M., educating disadvantaged children in elementary school, bibliography, 16229
Lewis, John H., jr., flight parameters and vehicle performance for Project Fire flight II, 15176
Lewis, L. Earl, industry wage survey, nursing homes and related facilities, 9335
Lewis, Richard W.:
nitrogen, 16567
potash, 16570
rock phosphates, 17850
Lewis, Thomas L., flight measurements of boundary-layer noise on X–15, 7877
Lewis and Clark Lake, carp, river carpsucker, smallmouth and bigmouth buffalo, 17676

Lewis and Clark Trail Commission:
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10281
establishment, supplement act of Oct. 6, 1964—
law, 15700
reports, 485, 11743
Lexical memory unit for electronic digital, computer, USSR, 885
Lexicon of geologic names of United States, 9008
Lexicons, *see* Dictionaries.
Lexington, Mass., flag of U.S., display, law, 436
Lexiphanes, *see* Beetles.
Ley Federal de cooperativas de credito con las modificaciones introducidas en ella hasta el 2 de julio de 1964, 2013
Lhermitte, Roger M., probing air motion by Doppler analysis of radar clear air returns, 11317
Li Tsu Chen, *see* Chen, Li Tsu (Nako).
Liability (law):
District of Columbia, physicians in good Samaritan cases, relieve, law, 441
N. S. Savannah—
executive agreements waiving sovereign immunity and limitation of shipowner's liability, opinion of Attorney General, 14959
private operation, agreement with Netherlands, 11261
Liability insurance:
savings by discontinuing on FHA acquired property, GAO report, 14729
uninsured motorist coverage required part of every automobile liability policy in D.C., report, 16117
Liammari, J. J., international coal trade, monthly inventory, 3075
Liang, Mui Kim Chen, relief, 1811
Liapunov method:
control of time variable, nonlinear multivariable systems using Liapunov's direct method, 7729
transient response from Lyapunov stability equation, 11057
Libby, Paul A., laminar boundary layer on cone in supersonic flow with uniform mass transfer, 9414
Liberia:
background notes, 14027
establishing business in, 12779
mineral industry, minerals yearbook chapter, 7696
Liberty:
faith of free men (remarks), 7358
Kurdish national liberation movements, 14910
Liberty Center, Ind., railroad accident, 12073
Liberty of the press, free press and fair trial, constitutional rights and guaranties, hearings, 4225
Librarians:
continuing education, conferences, workshops, and short courses, 8838
employment outlook, 9248
employment with Air Force, 14173
examination announcement, 5518
looking for librarians, fill your needs through Professional Placement Network, 11887
school, NDEA institutes for advanced study, 5884A
vacancy roster, Federal Government libraries, 9344
see also Medical record librarians.
Libraries:
Air Force, buying calendar for annual publications, 3778
basic reference sources for business use, bibliography, 18092
books, price fixing, hearings, 14492
Libraries—Continued
cooperation, etc., among information systems, literature review, 11091
defense oriented, availability of scientific journals, 12626
depository, law governing, 1882, 5715
District of Columbia area, 17823
Federal Government—
and public libraries, 10-year partnership, 13419
vacancy roster, 9344
grants, appropriations, 1967, amendments, 17171
library services and construction act—
extend and amend—
hearings, 10239, 11823
law, 12836
reports, 8635, 10170, 16067
Federal allowances and required matching expenditures from State and local sources, 1978
medical, John Shaw Billings centennial addresses, 13874
medical library assistance act of 1965, highlights, history, etc., 4535
New Haven, Conn., little miracle on Chapel Street, 17623
new serial titles—
alphabetical arrangement, 3266
classed subject arrangement, 3265
school—
library personnel, national defense institutes, manual, 5877
resources, textbooks and other instructional materials programs, 641
supervision in large cities, 7319
State extension, resources and services, 11882
see also names of departments, etc.—*also* names of libraries, or places where located.
Library accessions:
Adjutant General's Office, Army Library, 3505
Federal Fire Council, list, 3152
foreign statistical publications, 2993
India, American Libraries Book Procurement Center, New Delhi, 3059
Indonesia, American Libraries Book Procurement Center, Djakarta, 3062
Interior Department, 3150
Israel, American Libraries Book Procurement Center, Tel-Aviv, 3093
Labor Department Library, 3507
Middle East, American Libraries Book Procurement Center, Cairo, 3195, 4742
Nepal, American Libraries Book Procurement Center, New Delhi, 9347
Pakistan, American Libraries Book Procurement Centers, Karachi and Dacca, 3311
Reclamation Bureau Library, list, 3145
Russian, Library of Congress, 3214
Library Committee, Federal, *see* Federal Library Committee.
Library extension, *see* Libraries.
Library lists, National Agricultural Library, 11086, 15204–205, 17934–935
Library of Congress:
accessions—
India, American Libraries Book Procurement Center, New Delhi, 3059
Indonesia, American Libraries Book Procurement Center, Djakarta, 3062
Israel, American Libraries Book Procurement Center, Tel-Aviv, 3093
Middle East, American Libraries Book Procurement Center, Cairo, 3195, 4742
Nepal, American Libraries Book Procurement Center, New Delhi, 9347
Pakistan, American Libraries Book Procurement Centers, Karachi and Dacca, 3311
Russian, index, 3214

Library of Congress—Continued
American Libraries Book Procurement Centers, Karachi and Dacca, Pakistan annual list of serials, 17820
appropriations, 1967—
amendment, 8508
hearings, 11641, 16171
law, 15727
reports, 10224, 13168, 14395
bibliographical procedures and style, manual, 12228
calendar of events, 2723
cataloging service bulletin, 2731
catalogs—
books, subjects, 3146
dictionary, subject headings used, 3546, 17825
motion pictures and filmstrips, 3147
music and phonorecords, 12220, 16545
National Exhibition of Prints, 9343
national register of microform masters, 2307, 9345
national union catalog, 3242
register of additional locations, 2308, 9346, 14986
symbols used, 9348
classification—
additions and changes, quarterly list, 3105
class D, general and Old World history, 7682
class J, political science, 13652
class P, subclasses—
P–PM supplement, index to languages and dialects, 4740
PB–PH, modern European languages, 6276
PJ–PM, Asia, Africa, Oceania, America, languages and literatures, 4741
PT, German literature, 10891
class S, agriculture, etc., 1100
class V, naval science, 6277
collection of papers of—
Carnegie, Andrew, 7680
Sayre, Francis B., 7684
information bulletin, 3064
James Madison Memorial Building, construct, hearing, 526
National Referral Center for Science and Technology, 6278
PL 480 newsletter, 3148
press releases, 3385
Public law 480 project, 17820
accessions list—
India, 3059
Indonesia, 3062
Israel, 3093
Middle East, 3195, 4742
Nepal, 9347
Pakistan, 3311
publications in print, 13653
publications, price list, 7987
quarterly journal, 3441
report, 1965—
departmental edition, 9342
document edition, 8488
Library science, occupations, 10434
Libya:
agricultural economy in brief, 8832
background notes, 11239
labor laws and practices, 16527
mineral industry, minerals yearbook chapter, 2330
United Arab Republic boundary, study, 8062
Lice:
chicken, how to control them, 6751
Furnaricola, revision, description of new species, 6498
Licenses:
AEC licensing guide, 1686, 3845, 5381
export, approved and reexportations authorized, list, 2896
Licenses—Continued
water resource appraisals for hydroelectric licensing, planning status report—
Housatonic River basin, 4384
Kennebec River basin, 4385
Penobscot River basin, 4386
Piscataqua River basin, 4387
Presumpscot River basin, 4387
Saco River basin, 4387
see also classes of persons to whom, or subjects for which, licenses are issued.
Lichtenberger, Allan R., combined glossary of standardized items and terms presented in handbooks in State educational records and reports series, 13269
Lie detectors:
use of polygraphs by Federal Government—
hearing, 4133
report, 15930
Lie series, *see* Algebra.
Liebert, Curt H., spectral emittance of aluminum oxide and zinc oxide in opaque substrates, 1277
Liens:
bankrupt estate priorities, amend bankruptcy act—
law, 11591
reports, 5762, 5764, 10285
Farmers Home Administration, release of valueless liens, etc., permit, report, 17315
Federal tax lien act—
hearings, 5714
report, 15879, 17522
statements, digest, 7166
Life:
dialectics, USSR study, 9093
on earth and in outer space, philosophical speculations, USSR study, 6148
processes and radioisotopes, 11444
Soviet life scientists, biographies, 13476
Life insurance:
credit, for student loans, increase maximum amount allowable in D.C.—
law, 17108
report, 15852
Federal employees group insurance—
amendments of 1966, 7160
annual report, 6965
benefits, preservation for holders of congressional staff fellowships—
law, 7043
reports, 1844, 5789
designation of beneficiaries—
law, 7037
report, 5790
FPM manual supplement, 2948
improved benefits, etc., hearings, 8676
increase Government contributions, etc., report, 8724
national service—
regular dividend schedules, 5207–8
refunds, Philippine peso payments—
hearings, 14443
report, 15901
reopening program, review, hearing, 8686
total disability income provision premium rates, 18138
servicemen's group, handbook, 14063
Veterans Administration procedures for terminating total disability benefits under national service life insurance policies, GAO report, 7477
veterans and servicemen's program, review, hearing, 8686
Life insurance companies:
District of Columbia, amend act relative to financial standing—
law, 15738
reports, 8640, 16115
farm mortgage lending experience, 14547
nonfarm mortgage investments, 14628

239–221—67—No. 863——25

Life on other planets, *see* Extraterrestrial life.
Life preservers, self-inflating lifevest stores in small package, 10994
Life sciences in space age setting, materials structured as curriculum guide, upper elementary-junior high school, 12263
Life support systems:
  living in space, 13721
  manned spacecraft, application of radioisotopes, 9923
  thermal integration of electric power and life support systems for manned space stations, 1181, 16590
  water-immersion technique for study of mobility of pressure-suited subject under balanced-gravity conditions, 4900
Life vests, *see* Life preservers.
Lift (aircraft):
  attainment of high lift-drag ratios at hypersonic speeds, errata, 1245
  drag due to lift at subsonic speeds, factors affecting, 16664
  interference on sweptback wings in rectangular wind-tunnel test sections with slotted top and bottom walls, 12371
  jet-induced loss of jet VTOL configurations in hovering condition, 6415, 11062
  lateral-range and lift-drag-ratio requirements for return to both optimum and nonoptimum recovery sites, definition, 11079
  maximum lift-drag ratios of slender wing-body configurations at hypersonic speeds, geometric modifications, effect, 7829
  space vehicles, effects and importance of penetration and growth, 1186
  wave drag at lifting conditions, analysis, 16666
  X-15 airplane, summary, 7862
Lifting:
  danger to youth, 12202
  electro-magnets, industrial plant equipment handbook, 7255
  safety dial, 1086
  teach them to lift, 4702
  weightlifting provisions for women by State, 6703
Lifting clamp positively grips structural shapes, 10989
Light:
  and plants, experiments, etc., 8150
  artificial sources differ in effect on birch seedling growth, 790
  brightness of earth as planet, measurements, USSR study, 16408
  circular signals, detection, in relation to shape and color identification, 8213
  coherent light generators and amplifiers, USSR study, 12174
  color mixture functions at low luminance levels, 6281
  continuously and discontinuously moving stimuli effects on luminance threshold of stationary stimulas, 6285
  controlling in small clearcuttings, 801
  differential color sensitivity in purple region, 6284
  impact-light-flash at high velocities, experiments, 7738
  instrument for detection of extraterrestrial life by optical dispersion, 9399
  intensity, effect on oxygen production by algae, 5075
  luminance, effect on moon illusion, 1626
  measurements in study of primary production in sea, USSR study, 14798
  measuring angle between stationary stimulated star and stationary blinking light, sextant sighting performance, 13822
  perception of red and green at various retinal positions, effect of luminance, 13662
Light—Continued
  pulsed sources, CRT displays for threshold determinations of apparent movements, 2363
  recovery of foveal acuity following exposure to various intensities and durations of light, 13665
  scattering—
    in snowstorms, 9889
    media, determination of extinction, coefficient, 16407
    technique, solvent residue content measured, 13755
  transmitting and scattering properties of smoke, 17683
  see also Hydrooptics.
Light amplifiers, *see* Lasers.
Light filters, *see* Filters and filtration.
Light horses, 34
Light lists, *see* Lights and lighting.
Light modulators, modulation inducing retrodirective optical system (MIROS) follow-on program, 7730
Lighthouse of the skies, 8019
Lighthouse Service:
  former employees, widows, increased annuities, report, 17547
  retired pay, increase, hearings, 8674
Lighting equipment, *see* Lights and lighting.
Lightman, Joseph M., patent, trademark, industrial design and copyright protection in Colombia, 14326
Lightner, Lee M., periodontal status of incoming Air Force Academy cadets, 15493
Lightning:
  ball, characteristics, 4935
  ball, riddle of, USSR study, 13540
Lightning arresters, consolidated identification list for test evaluation, Federal supply catalog, Department of Defense section, 8809
Lights and lighting:
  airfield lighting, Navy design manual, changes, 1569
  airports—
    approved lighting equipment, 15496
    installation details for centerline and touchdown zone lighting systems, 15497
  circular, explosion-proof lamp provides uniform illumination, 9468
  Coast Guard list—
    Atlantic and Gulf Coasts, and Antilles, 6991
    Great Lakes, 8405
    Mississippi River System, 8406
    Pacific Coast and Pacific Islands, 14315
  electric lighting fixtures, current industrial reports, 252
  fixtures, Federal item identification guides for supply cataloging, supplements, 2936
  illumination, geographic aspects, 2d all-Union conference, works, 6109
  Naval Oceanographic Office, lists—
    Baltic Sea with Kattegat, etc., 1338, 6523, 9584, 16747
    British Isles, etc., 2482, 7959, 12407, 16746
    Europe and Africa, west coasts, etc., 5056, 7958, 13897
    Greenland, etc., 13894, 15237
    North and South America—
      east coasts, etc., 5055, 9581
      west coasts, etc., 1337, 6522, 9582, 13695
    Norway, etc., 2483, 7960, 12408
    Pacific Ocean, western, etc., 2481, 9583, 13896, 17970
  temporary lights for flammable atmospheres and general use, maritime safety data, 16523
Lignite, Texas beds, delineation by statistical techniques, 16578
  see also Coal.
Lim Al Ran, relief, 16022

Lim, Benjamin H.:
  mineral industry of—
    Guinea, 6300
    Ivory Coast, 6301
    Liberia, 7696
    Taiwan, 4779, 16565
    Venezuela, 10917
Lim Soo Ran, relief, 16022
Lime:
  hydrated, subgrade stabilization under landing mat, 7333
  liming soils, aid to better farming, 15442
  mineral industry survey, monthly, 3149
Limestone:
  Harrodsburg limestone in Kentucky, 9015
  imported for use in manufacture of cement duty-free treatment, report, 17328
Limitations (law):
  establish statute of limitations for certain actions brought by Government—
    hearing, 11670
    law, 12830
    reports, 10157, 16087
Limiters, *see* Impact limiters.
Limnology, Great Lakes, Federal fishery research, annotated bibliography, 11978
Lin-Fu, Jane S., sickle cell anemia, 3946
Lin Piao, long live victory of people's war, 14690
Lincoln, Abraham:
  centennial anniversary of 2d inaugural, funds for celebration, report, 17252
  commemorative stamp (poster), 9612
Lincoln, Abraham, Joint Committee to Commemorate 100th Anniversary of 2d Inaugural, report, print as House document, reports, 10186, 17469
Lincoln, Nebr., space education plan for children, 12276
Lincoln Boyhood National Memorial, general information, 7946
Lindell, Gary R.:
  market opportunities for treated wooden guardrail posts in West Virginia, 791
  marketing West Virginia lumber to manufacturers in other States, 797
Lindemann, Terrance, report from volunteer unit, executives march ahead, Ghana request shows progress being made by international corps from U.S. business, 14781
Linder, Harold F., address, Apr. 26, 1966, 10448
Lindmark, Ronald D., removing undesirable trees from hardwood stands, 10558
Lindorff, D. P., control of time variable, nonlinear multivariable systems using Liapunov's direct method, 7729
Lindow, Herbert A., basic data on economy of Colombia, 12780
Linear amplifiers, *see* Amplifiers.
Linear equations, *see* Equations.
Linear exchange model, USSR, 16433
Linear programming:
  analysis, alternative land retirement programs, aggregate economic effects, 14162
  applying in forest industry, 10609
  integral, algorithm for solution of problems with boolean variables, USSR study, 2224
  problems, solutions with block structures, USSR studies, 10744
Linear systems, mechanical, vibration, 12269
Lines, *see* Electric lines—Telephone lines.
Ling-Temco-Vought, Inc., President's E award for export excellence (remarks) 12791
Linguistics, *see* Language and languages.
Linings:
  floating liners, use of thin films, for fiberglass cryogenic propellant tanks, 4949
  fuel tank, effects of jet fuel anti-icing additive, 1369
  glass flakes as liner for fiber-glass cryogenic propellant tanks, 4893
Link, Leonard E., reactor technology, selected reviews, 5409
Linn, Alice, how to teach sewing machine use and care, 3764
Linnerbom, V. J., statistical evaluation of gas chromatography for determination of dissolved gases in sea water, 12428
Lint cleaning at cotton gins, etc., 16943
Linters, *see* Cotton.
Lipids:
  acidic, natural, ionic, surface and membrane properties, studies, 10671
  human serum, analysis for clinical investigation, 1620
  lipid metabolism and atherosclerosis, USSR study, 7567
  serum lipids during progressive hyperthermia, 12635
Lipp, Frank E., relief, 5569
Liquid cavitation studies in circular pipe bends, 4925
Liquid fuels, methane, potential for Mach 3 commercial supersonic transports, 12352
  see also Fuel oil.
Liquid hydrogen, *see* Hydrogen.
Liquid level gages, device without electrical connections in tank measures liquid level, 9489
Liquid level indicators:
  inductive system detects level of conducting fluids, 15122
  photoelectric system continuously monitors liquid level, 4876
Liquid mechanics, *see* Hydromechanics.
Liquid metals, *see* Metals.
Liquid nitrogen, *see* Nitrogen.
Liquid oxygen, *see* Oxygen.
Liquid trap seals thermocouple leads, 11006
Liquid uranium, *see* Uranium.
Liquidity (economics):
  commercial bank liquidity, paper, 16278
  economic growth and international liquidity (remarks), 12548
  foreign gold and exchange reserves, international liquidity, current trends, 10416
Liquids:
  behavior in reservoir of sound suppressor system, 4921
  centrifugal device separates liquid from gas, 4887
  configuration in propellant tanks, simulator, 9509
  confined, thermal boundary layer, 9521
  interaction of structure and liquid in sound suppressor system, 4926
  level, control system maintains, 4872
  organic, displacing from solid surfaces, solution systems, 16768
  stability of intermixing high-velocity vapor with its subcooled liquid in cocurrent streams, 16656
  subcooled, complementary system vaporizes, improves transformer efficiency, 6371
  theory, 17740
Liquors:
  District of Columbia alcoholic beverage control act, amend—
    hearings, 15965
    report, 12906
  intoxicating, code of Federal regulations, 7413
Lisagor, W. Barry, oxidation-resistant coatings on alloy sheet, 7828
Lisi, Alfred G., carcinogenesis abstracts, 2729
Liske, Edward A., jr., H-response in electroencephalograms of aircrew personnel, 3799
Listening, *see* Attention.
Lister, Ernest A., remarks, June 24, 1966, 11522
Lists, *see* subjects of lists.

Litchfield, Elton L., detonation initiation in alkane-oxygen mixtures, 15031
Literacy Day, International, see International Literacy Day.
Literature, *see* Baroque literature.
Lithium:
columbate, high-temperature heat content, 17867
corrosion of metals, USSR studies, 16426
devitrification of lithium, disilicate glass, 2354
manufacture of lithium-drifted silicon surface-barrier semiconductor counters, 15166
minerals yearbook chapter, 13686
Lithographer, I & C, Navy training course, 17075
Litigation, *see* Actions at law.
Litter in longleaf pine stands thinned to prescribed densities, 16334
Litters, *see* Stretchers.
Little, S., Atlantic white-cedar being eliminated by excessive animal damage in South Jersey, 789
Little Arkansas River and Valley, fluvial sediment in basin, 14754
Little Blue River and Valley, fluvial sediment and chemical quality of water in basin, 17728
Little Calumet River:
pollution of interstate waters, conference—
proceedings, 7493
technical session, 11962
conclusions, 11961
Little John (rocket), *see* Rockets.
Little Lake Harbor, currents, 9339
Little miracle on Chapel Street, 17623
Little Nancy (fishing vessel):
documentation for coastwise trade—
hearings, 8674
law, 372
report, 1818
Little River, S.C. to Rio Grande, Tex., and Antilles, light list, 6991
Little Rock, Ark., area wage survey, 1093
Little Tahoma Peak, rockfalls and avalanches, 2092
Littleville Dam, Huntington, Mass., mining method technique and cost of presplitting flood control gate shaft, 1110
Litvinov, Maksim, activities as ISKRA agent, USSR, 14837
Liver, glycogen of anesthetized dog, effects of hydrazine, 9864
Livestock:
animal industry, classification, Library of Congress, 1100
Canada's industry, 10551
commercial farms, costs and returns, Bluegrass area, Ky., 14531
farm production, etc., 9739
foreign agriculture circulars, 2987
foreign crops and markets (periodical), 2986
health requirements, etc., government movement, 3733
importation of animals that have transited countries affected with foot-and-mouth disease or rinderpest, opinion of Attorney General, 9191
industry, organization and competition, 15214, 16721–723, 17947–948
insecticides, guide, 9814
inventory, 6659
livestock and meat situation, 3158
livestock reporting, 1st century, 15473
market news—
conference report, 1953
weekly summary and statistics, 3159
products, exports, expansion, potentials and problems hearings, 17599
ranches, western, 1965, costs and returns, 14529
regulatory establishments, stations, and officials, 3714
Livestock—Continued
report, 1866–1966, development and progress, 15378
slaughter industry—
decentralization, 10408
federally inspected structural changes, 5863
slaughter, meat and lard production, etc., 9738
slaughter, monthly report, 3160
stimuli and devices to drive livestock, feasibility tests, 8130
water provided by rain traps, 14133
western ranches, grazing fees and permitted use of public rangelands on incomes, effects of changes, 4279
western range and livestock report, monthly, 3705
world summaries of statistics, release date, announcement, 4433
see also Food for livestock.
Living conditions, *see* Cost and standard of living.
Living in space, 13721
Livingston, Mont.:
geology of southwestern area (series), 4522
stratigraphy of Madison group, and discussion of karst and solution-breccia features, 4522
Livingston coal field, Mont., resources, geology, 12025
Lizardfishes, Synodontidae of western Atlantic Ocean, field guide, 11967
Lizards, iguanid lizard Tropidurus torquatus at Belem, Para, ecology, aspects, 14015
Llorens, Jacinta, relief, 15832
Lloyd, Dallas, arms control and disarmament, studies in progress, etc., 1492, 15336
Lloyd, Walter A., Extension Service review, 2902
Load (mechanics):
bearing loads, use of penetrometers to determine capability of dust materials to support, 4946
buffet response of Apollo boilerplate service module, full-scale and model compared, 4895
concentrated, stress distribution in orthotropic half-plane, 10594
constant-amplitude loading, local plastic stresses in sheet-aluminum-alloy specimens, 4914
displacements in elastic half-space due to moving concentrated normal load, 12370
dry film lubricant effective at extreme loads, 12298
dynamic conditions, behavior of single-turn magnetic coil, 4945
effect of loading rate on edgewise compressive strength of corrugated fiberboard, 10565
force-deflection characteristics of aircraft tires, 9413
friction loading device enables accurate testing of brittle materials, 13780
general instability of ring-stiffened corrugated cylinders under axial compression, 4902
in-plane and axial eigenvalue problem for beams and rectangular plates, 15056
inversion, of circular tube, prediction, 16685
jet-induced lift losses on VTOL configurations hovering in and out of ground effect, 6415
linear aerodynamic loads on cone-cylinders, 7735
low-power ring counter drives high-level loads, 9457
maneuver fatigue test results, programming techniques and load factors influence, 4913
mechanism isolates load weighing cell during lifting of load, 6397

Load (mechanics)—Continued
piloted launch vehicle, simulation investigation of loads, 7836
pneumatic separator gives quick release to heavy loads, 15093
pressure responsive seal handles static and dynamic loads, 2378
pressure-welded flange assembly provides leak-tight seal at reduced bolt loads, 11039
rectangular plates, moments and reactions, 9640
René 41, fatigue under constant- and random-amplitude loading at room and elevated temperatures, 1256
rock bolts under combined loading, yield and ultimate strength, 16585
static distributed aerodynamic loads on launch vehicles, empirical method for determining, 7833
tensile-strength apparatus applies high strain-rate loading with minimum shock, 6389
time-dependent loading, axisymmetric response of cylindrical and hemispherical shells, 15069
truss-core sandwich cylinder loaded to failure in bending, test, 4916
wind loads on vertically launched vehicles at various geographic locations and launch altitudes, 6444
X–15 landing loads, summary, 4979
Load-carrying terminals for armored electric cables, 2493
Load cells, *see* Scales (electronic)—Scales (weighing instruments).
Load lines, merchant and passenger vessels, regulations, 8407
Load Lines, International Convention on, *see* International Convention on Load Lines.
Loader, Maurice, and wife, relief, 12870
Loaders (mechanical):
scoop-type, M85 A–M, rigging for airdrop, 11407
universal transloader moves delicate equipment without stress, 15114
Loading, *see* Load (mechanics)—Unlading and lading.
Loan associations, *see* Federal savings and loan associations.
Loans:
closing costs on single-family homes, 838
commercial and industrial, outstanding by industry, 2761
commercial bank lending behavior (remarks), 11947
constitutionality under certain acts, judicial review—
hearings, 11818, 13223
report, 13164
economic disaster, under consolidated FHA act, authorize, hearing, 4210
economic injury disaster loans for displaced small businesses, 11218
EDA business loans, how to apply, 1965, 4263
excess payments by servicemen on loan accounts, 1849
farm labor housing, 12611
Farmers Home Administration—
insured loans, information for lenders, 3763
insured, payment of installments—
law, 17126
reports, 12983, 16153
leased lands in Hawaii, authorize—
law, 15756
reports, 11768, 14398
opportunity loans, 8161
procedures for determining whether loan applicants are unable to obtain financing from private or cooperative credit sources, need to strengthen, GAO report, 4500
Federal credit programs, study, print additional copies, reports, 12999, 17474
Loans—Continued
Federal Housing Administration—
financing for home purchases and home improvements, consumer bulletin, 5935, 14629
home mortgage insurance, consumer bulletin, 2015, 11917
Spanish edition, 7368
quick guide for buying a home, 13322
title 1, property improvement loans, consumer bulletin, 13323
Spanish edition, 8899
to water supply and waste disposal systems serving rural areas, general information, 6769
Federal loan for poultry processing plant in New Castle, Pa., hearing, 4117
Federal reserve member bank loans, 3188
first processors of agricultural commodities, hearing, 17355
fisheries, for vessels and gear, 754
Greek refugee repatriation, 1929, settlement acceptance, report, 1914
guaranteed loans, program for college students of middle or upper income group, 5874
higher education act of 1965—
law, 430
outlined by title, 645
promise and challenge, 7311
questions and answers, 7312
section by section analysis, 646
State and private nonprofit agency programs, 17622
home mortgage, in rural areas through Voluntary Home Mortgage Credit Program, 14535
home owners acts, compilation, 4042
housing—
default, VA savings through canceling hazard insurance, GAO report, 13383
defaulted, collection efforts of VA, GAO report, 4504
insurable, digest, 7364
insured and direct loans for vocational education students, guaranteed loans, promise and challenge, 7311
International Development Agency, loan program financial statements, 1962–64, audit, GAO report, 6006
Menominee Enterprises, Inc., implement, hearings, 11824
national defense education act, private non-profit schools, teaching equipment, 4309
national defense student—
college-work-study program, and list of participating institutions, 1965–66, 7316
loans program, general information, 5874
pools, sale of participations—
address, 9752
authorization, 1967, proposal, 11697
hearings, 8681, 10236, 10267, 10331
law, 10080
message from the President, 8505
reports, 8746, 10145
public works & development facilities, 4266
public works and economic development act, broaden coverage, hearings, 14438
recreational enterprises, 8164
Rural Electrification Administration—
electrification and telephone loan accounts, establish, hearings, 13011
program, statistical report, 16818
proposed legislation, 11211
telephone loan account, establish, hearings, 17356
sales of financial assets by Government agencies, submission of data, regulations, 14050
savings and home financing, source book, 1965 data, 11915

Loans—Continued
Small Business Administration—
amount outstanding, increase, authorization—
hearing, 8663
law, 10060
reports, 5786, 7102, 8570
business loan approvals, 1965, supplement, 14012
financial assistance programs, summary, 16823
lending programs, hearing, 5826
pools, sale of participations—
hearings, 8681–83, 10267
reports, 5785, 8615–16
small business, waging war on poverty through economic opportunity loans, 18094
soil conservation and allotment act, amend with respect to assignment of payments, report, 17281
students as investment (address), 7324
students, gleaming promise of guaranteed loans (address), 8841
veterans—
direct and insured cases, extend treble-damage action to—
law, 17119
reports, 10129, 16142
guaranteed and direct, questions and answers, 18137
permanent program—
digest and analysis of bill, 5819
print additional copies, report, 7196
hearing, 5711
law, 5583
report, 4099
World War I, loans made upon security of adjusted-service certificates, cancel certain unpaid interest, report, 12955
veterinary medicine students, reports, 15943, 17527
watersheds, 59
see also Credit insurance—Federal savings and loan associations—Mortgages—Savings and loan associations.
Loblolly pine, *see* Pine.
Local Board memoranda, 3162
Local convention representation and constitutional amendments in national unions, 1079
Local government, *see* Government.
Local public agency letters, 3164
Local transit, operating employees, union wages and hours, 9333
Location identifiers:
airport, etc., handbook, 3165
system locates randomly placed remote objects, 13751
Lockhart, L. B., jr.:
atmospheric radioactivity in Antarctica, 6551
extent of radioactive equilibrium between radon and its short-lived daughter products in atmosphere, 16757
size distribution of airborne fission products during 1963–64, 1381
Lockheed Missiles and Space Company, conceptual design of 50 MGD desalination plant, 12045
Locks (hydraulic engineering):
Cordell Hull Navigation Lock, Cumberland River, Tenn., filling and emptying system, hydraulic model investigation, 16251
filling and emptying system, Holt Lock and Dam, Warrior River, Ala., 1993
Hannibal Lock, Ohio River, Ohio and West Virginia, hydraulic model investigation, 13297
Millers Ferry and Jones Bluff Locks, Alabama River, Ala., filling and emptying systems, hydraulic model investigation, 10444
Locks (hydraulic engineering)—Continued
Monongahela River, navigation conditions at Locks and Dam no. 4, 16250
Sault Ste. Marie, Mich., new 2d lock, determine size, policies and procedures followed, GAO review, 17712
spillway for typical low-head navigation dam gate sills and stilling basins for locks 5 and 7 Arkansas River, Ark., 1991
see also names of locks.
Locks and keys:
key-locked guard prevents accidental switch actuation, 11027
polarizing keys prevent mismatch of connector plugs and receptacles, 12296
simple key locks turbine rotor blades, 4860
Lockwood, Sharon B., Nigeria, guide to official publications, 17824
Lockwood, Vernard E., pitch-up on supersonic transport model with variable-sweep wing, 15160
Locomotion, small laboratory animals, electronic integrator for quantitative evaluation of effect of pharmacological agents on motor function, USSR study, 953
Locomotives, Cincinnati builders, 1845–68, 9565
Lodgepole pine, *see* Pine.
Lodging, *see* Housing.
Loeb, George I., surface chemistry of proteins and polypeptides, 16755
Loeb, Jeanne, weight at birth, and survival of newborn, U.S., 1950, 1443
Loess:
loess-mantled Great Plains, Medicine Creek drainage basin, Nebr., erosion and deposition, 17717
morphologic species, cartographic representation on large scale topographic maps, Communist Chinese study, 17759
Loewenberg, J. Joseph, operation of severance pay plans and their implications for labor mobility, 7665
Logan, Samuel H.:
economies of scale in cattle feeding, 16722
economies of scale in cattle slaughtering plants, 17948
labor cost of slaughtering hogs, 16723
Logan, William J. C., publications on Chinese agriculture prior to 1949, list, 17935
Logarithms:
five-figure table of functions, for determining Seebeck coefficients, 12438
logarithmic current amplifier, transistor circuit increases range, 13785
Logging, *see* Lumbering.
Logic (symbolic and mathematical):
Exclusive-Or circuit, useful properties, 12314
low power nanosecond pulse and logic circuits using tunnel diodes, 15168
sampled data and switching logic, 9556
Logistics:
machining data, AMC pamphlet, 14209
national survival, NREC programs for gaming, 1982
preparation and review of machine tool replacement analysis work sheets, 16955
propulsion units, Air Force manual, 6791
provisioning screening procedures, DSA–DLSC manual, 16211
see also Military art and science—Naval art and science.
Logs:
black cherry, not degraded by adventitious bud clusters, 5978
black walnut, export controls, hearings, 4214
hardwood—
cost of scaling and grading, 10602
grades for standard lumber, 17698
grading at circular sawmills, 5975
low-grade for paneling and flooring, 10566

Logs—Continued
log jams, effect in salmon spawning stream, 13358
overruns, southern yellow pine, 14708
production, 1964, Oregon, 4480
stored, water spray protects in Hilo, Hawaii, 10574
veneer, southern hardwood, major defects, 10608
Logsdon, Donald F., jr., effect of thymidine pool size on incorporation of thymidine into DNA after irradiation, 5329
Lohr, Inez D., selected films on child life, 276
Loma, Point, Navy ship mooring facility, hydraulic model investigation, 5887
Lompoc subarea of Santa Ynez River basin, suitability of irrigation water and changes in ground-water quality, 4529
London, England:
Sunday Telegraph, interview with Valeriy Tarsis, USSR comments, 10813
U.S. trade center, 14783
Long Beach, Calif.:
area wage survey, metropolitan area, 12212
commodity transportation survey, production area series, 8347
Long Island, ground water development, changing pattern, 9016
Long Island National Wetlands-Recreation Area, establish, hearings, 14432
Long Island Sound, tidal current tables, 11505
Long live victory of people's war, article by Chinese People's Republic Minister of Defense Lin Piao, 14690
Long term economic growth, 1860–1965, 15595
Longevity, *see* Centenarians.
Longhorn cattle, *see* Cattle.
Longhurst, Alan R., shrimp potential of eastern Gulf of Guinea, 4410
Longitudinal stability, *see* Stability of aircraft.
Longleaf pine, *see* Pine.
Longshoremen:
accidents, 1964–65, analysis of injuries, 17806
longshoremen and harbor workers' compensation act, as extended, 13285
longshoring, safety data, maritime, 17806
maritime safety digest (periodical), 3181
Pacific longshore industry, wage chronology, 9334
safety and health regulations, 16526
Longshoring, *see* Longshoremen.
Longwall mining, *see* Coal mines and mining.
Lonquimay, Chile, uranium reconnaissance, 5400
Lonsdal, H. K., reverse osmosis for water desalination, 852
Look-angle-prediction technique for artificial earth satellites, 12431
A look at tomorrow's jobs, 9314
Looms, broad fabric weaving, number in place by type and width, 1964, current industrial reports, 246
Lopez, Oscar, relief, 16023
Lorain, Ohio, commodity transportation survey, production area series, 8344
Lordi, J. A.:
catalysis of hydrogen-atom recombination in rocket nozzles, 6341
computer program for numerical solution of nonequilibrium expansions of reacting gas mixtures, 10943
Lorenzo, Carl F., transfer function analysis of fluid contained in longitudinally excited tank, 16692
Loria, Edward A.:
consolidation and mechanical properties of electrowon molybdenum, 9387
correlation of yield behavior in electrorefined vanadium with interstitial impurities, 1169
Loria, Andrew, relief, 8708
Lorton Youth Center, chance on the outside, manpower development and training program, 11867
Los Alamos, N. Mex., aerial radiological measuring survey (ARMS) of area, 8279
Los Angeles, Calif.:
area wage survey, metropolitan area, 12212
commodity transportation survey, production area series, 8347
principal electric facilities, map, 7378
south and east areas—
census, population characteristics, 12724
population, special census, 6926
Worldway Postal Center, plans, 6565
Los Angeles County, Calif., western, sediment yield of Castaic Watershed, quantitative geomorphic approach, 2103
Losses in agriculture, errata, 9812
Lost River and Valley, water pollution study of Klamath Basin, 8933
Loubsky, William J., tailored-interface operation of shock tubes with helium-driven planetary gases, 12363
Louis A. Johnson Memorial Veterans' Hospital, designate, report, 16141
Louisiana:
climatological data, 2751
county business patterns, 229, 17000
electric rate book, 709
forests, 2080
highway construction practices, report, 15948
iron and steel scrap, 9360
landings, fish and shellfish, 3171
life tables, 18026
Lower West Red River Soil and Water Conservation District, improved pastures for prize cattle (colored poster), 9677
manufacturing plants, location by county, industry, and employment size, 1963 census, 16996
mineral industry, minerals yearbook chapter, 2331
northern, low-flow characteristics of streams in Mississippi embayment, 10641
precipitation data, hourly, 3045
soil survey laboratory data and descriptions, 16839
Southeast hurricane disaster relief act of 1965—
hearing, 527
law, 439
report, 554
Louisville, Ky.:
area, hydrologic conditions, 9025
area wage survey, metropolitan area, 9328
principal electric facilities, map, 7375
Louttit, Richard T., bibliography in neuropsychology, 13985
Lovering, T. S.:
direction of movement of jasperoidizing solution, 9013
underground temperatures and heat flow in East Tintic district, Utah, 4521
Lovett Food Market, accident, 10697
Loving, Donald L., wind-tunnel—flight correlation of shock-induced separated flow, 16661
Low, Seth, America's children and youth in institutions, 6943
Low-power ring counter drives high-level loads, 9457
Low rent housing, *see* Housing.
Lowell, Mass., commodity transportation survey, production area series, 8339
Lowenstein, Frank, address, Mar. 8, 1966, 8173
Lower Colorado River Basin project:
construct, etc., hearings, 519, 10247
print additional copies, reports, 490, 561

Lowery, David P., bibliography of high temperature, kiln drying of lumber, 16336
Lowery, Ronald R., improvement of commercial hypereutectic aluminum-silicon master alloy, 9384
Lowrie, L. M., strong motion seismic measurements, Project Dugout, 1682
Lowrie, Raymond L., analysis of coal industry in Boulder-Weld coalfield, Colorado, 6318
Lowry, Marlin E., ground-water resources of Sheridan County, Wyo., 12029
Lowson, M. V., pressure fluctuations in turbulent boundary layers, 4915
LPN (licensed practical nurse), *see* Nurses and nursing.
LR series, 6590
LSD–25, *see* Lysergic acid diethylamide.
Lubbock, Tex., area wage survey, metropolitan area, 13606
Lubricants:
  aircraft ordnance, icing resistance, factors affecting, 2500
  boundary, gallium alloy films investigated for use, 9472
  dry film lubricant effective at extreme loads, 12298
  farmers tax credit, 14775
  Federal item identification guides for supply cataloging, supplements, 2937
  impregnated in ball-bearing retainers at 10^{-6} torr, evaluation, 4976
  neopentyl polyol ester, analysis for acyl components, 12425
  oil contaminants in fluid lines, detection with radioactive tracer system, 7766
  sales of lubricating and industrial oils and greases, current industrial reports, 15589
  solid, 16621
    bibliography, 6360
  solid-film, effective at high temperatures in vacuum, 7763
  see also names of lubricants.
Lubrication:
  ball bearings, new approach, 12435
  polytetrafluoroethylene lubricates ball bearings in vacuum environment, 6405
  rolling contact lubrication studies with polyphenyl ethers at reduced pressures, 4909
  self-lubricating composites of porous nickel and nickel-chromium, 12357
  unique gear design provides self-lubrication, 2385
Luce, Gay G., current research on sleep and dreams, 1307
Lucifora, Guiseppina R., relief, 1815
Ludwig, Lawrence P.:
  end effect and pressure patterns in helical groove fluid film seal (viscoseal), 1262
  gas ingestion and sealing capacity of helical groove fluid film seal (viscoseal) using sodium and water as sealed fluids, 7866
Luggage, *see* Baggage.
Lub, J. Y. S., bounded phase coordinate control, 9438
Luidens, Roger W.:
  manned Mars landing mission by means of high-thrust rockets, 4929
  planetary parking orbits with examples for Mars, 4959
Lull, Howard W., annotated bibliography of watershed management research, 10601
Lumb, Dale R., error rate reduction of parity checked telemetry data by likelihood deletion strategy, 15181
Lumber:
  air-drying practices in central Appalachians, 17703
  balsam firm dimension, in selected Minnesota markets, 5995
  cargo, tariff filing requirement, restore, law, 405
Lumber—Continued
  dry-kiln, operation and maintenance, Australian study, 10564
  evaluation of commercially made end joints in lumber, 3 test methods, 4466
  exports, 1964, 180
  Federal item identification guides for supply cataloging, supplements, 2935
  high-temperature kiln drying bibliography, 16336
  how to determine seasoning degrade losses in sawmill lumberyards, 788
  Kentucky sawmills production, geographic destination and market outlets, 5979
  portable hog feeder from red oak, 10591
  production and mill stocks, current industrial reports, 6921
  products—
    census of manufactures, 1963, manufacturing plants, location, 12699
    commodity transportation survey, shipper series, 215
  publications, price list, 12458
  structural size, tension test method, 4465
  West Virginia, marketing to manufacturers in other States, 797
  see also Hardwoods.
Lumbering:
  fair labor standards act, applicability to forestry or logging operations, 11312
  forces in balloon logging, 4446
  logging and slash burning, effect on understory vegetation in H. J. Andrews Experimental Forest, 8961
  logging camps, census of manufactures, 1963, industry report, 6897
  logging wounds on northern hardwoods, decay and discoloration, 11994
  mechanized logging operation in southeast Kentucky, harvesting costs and returns, 5976
  single-hull balloon, logging test, 10604
  skyline logging, wire rope tensions and deflections, 4481
  skyline yarding system, radio-controlled, economics and design, 2076
Luminance, *see* Light.
Luminescence:
  electroluminescence—
    research and development reports, 7918
    vs teletype readability of weather messages, information processing, study, 6801
  electroluminescent instrument panels, legibility, 15095
Lunar:
  Note.—For other subjects beginning Lunar, *see* Moon.
Lunar charts and mosaic series, U.S.A.F., 84–89, 6802, 8195–97, 14179–182, 14186–187
Lunar landings:
  altitude and descent rate combinations for safe abort during terminal phase, 13830
  iterative guidance mode, application, 1246
  research vehicle, landing dynamics study, 9403
  soft, touchdown dynamics, Monte Carlo approach, 1279
Lunar missions, *see* Moon.
Lunar orbits, *see* Orbits.
Lunar satellites, *see* Satellites.
Lunar science:
  manually controlled translation and hover maneuvers over lunar surface, fixed-base visual-simulation study, 17919
  NASA 1965 summer conference, 2371
  surface studies, annotated bibliography, 9451
Lunch at school, serves the nation, 16937
Lunches:
  children's summer lunch program, establish—
    hearings, 13030
    report, 8634
  see also School lunches.

Lunde, J. K., symposium on naval hydrodynamics, ships motions, etc., 16753
Lunden, Leon E., major collective bargaining agreements, management rights and union-management cooperation, 9206
Lundgren, Allen L., estimating investment returns from growing red pine, 10597
Lundquist, Arnold L., reducing operating costs in affiliated produce warehouses, 5287
Lundy, C. A., land conveyance, 15826, 17085, 17417
Lungs:
  chronic obstructive diseases, management, conclusions of 8th Aspen Emphysema Conference, 11192
  electrical resistivity at 100 kc./sec., 12638
Lunsford, Jack H., electron paramagnetic, resonance spectroscopy, study of surface defects and adsorbed molecules, 7871
Lurgi-gasifier tests of Pittsburgh-bed coal, 4799
Luria, Saul M.:
  effect of stimulus duration on perception of red-green and yellow-blue mixtures, 13663
  estimation of size and distance underwater, 13664
  moving stimuli effects on luminance threshold of stationary stimulus, 6285
Luscsynski, N. J., salt-water encroachment in southern Nassau and southeastern Queens Counties, Long Island, N.Y., 10648
Lush, Gerson H., Department of State news letter, 2850
Lustig, Lawrence K.:
  clastic sedimentation in Deep Springs Valley, Calif., 817
  sediment yield of Castaic Watershed, western Los Angeles County, Calif., 2103
Luther, Larry V., market factors in Thailand, 12785
Lutheran Church of the Covenant, ship model, duty-free entry, 17186
Lux, Fred E., length-weight relation of summer flounder, 14675
Luxembourg:
  alien amateur radio operators, authorization to operate, agreement, 5170
  labor conditions, 13638
  mineral industry, minerals yearbook chapter, 7697
  mutual defense assistance, agreement, 6654
Luzerne County, Pa., geology, Ransom quadrangle, 13397
Lyapunov method, *see* Liapunov method.
Lyles, Charles H., fishery statistics of United States, 14678
Lyman, Charles P., temperature regulation in vampire bat desmodus rotundus, 81
Lyman series:
  molecular oxygen densities from rocket measurements of Lyman-α absorption profiles, 6340
  errata, 9392
Lymph, pericapillary space, dynamics of capillaries and existence of plasma flow, 15146
Lynch, Norris A., market for toys, games and dolls in France, 347
Lynde, Harold W., jr.:
  cobalt, 15001
  nickel, 16566
Lyon, L. Jack:
  initial vegetal development following prescribed burning of Douglas-fir in south-central Idaho, 16337
  problems of habitat management for deer and elk in northern forests, 8973
Lyon, R. H., low-frequency noise reduction of spacecraft structures, 16605
Lysergic acid diethylamide, Soviet reports on LSD, 14880
Lysons, Hilton H.:
  logging test of single-hull balloon, 10604
  skyline logging handbook on wire rope tensions and deflections, 4481
Lysozymes, ascorbic acid protection against inactivation, 7625
Lysyj, Ihor, determination of trace organic materials in water, 6065

M

M2–F1, *see* Gliders (aircraft).
Ma, M. T., table of radiation characteristics for uniformly spaced optimum endfire arrays with equal sidelobes, 2451
MA SP series, 1102–3, 4745–46, 6280, 9352–53, 10900–905, 16549
MAA (medical assistance for the aged), *see* Medical care.
MAC, *see* Military Airlift Command.
Macaca Mulatta, *see* Monkeys.
McAlister, J. Andrew, heat transfer to gas containing cloud of particles, 1185
MacArthur, Douglas:
  campaigns in the Pacific, 14220
  in Japan, the occupation, military phase, 8260
  reports, 8260, 14220
MacArthur, Jean B.:
  management aids for small manufacturers, 1456
  small marketers aids, 1460
McArthur, J'Wayne, feasibility of establishing alfalfa dehydrating plants in Northwest resource conservation and development project areas, 14542
McBarron, H. Charles, American soldier posters, 3812
McBride, Don, nomination, hearing, 10369
McCafferty, James A., persons under supervision of Federal probation system, 14098
McCarthy, John V., free world production and trade in selected household appliances, 4004
McCarthy, Mary A., infant, fetal, and maternal mortality, U.S., 18082
McCarthy, Philip J., replication, approach to analysis of data from complex surveys, 11198
McCauley, Orris D., cause and cost of production delay at hardwood circular sawmills in Kentucky and Ohio, 5977
McChesney, Frank, zoning for small towns and rural counties, 11857
McClendon, Leslie, on-site radiological safety, 16974
McClure, William J., Convention of American Instructors of the Deaf, report of proceedings of 42d meeting, 4158
McClurkin, D. C., diameter growth and phenology of trees with high water tables, 2073
McColloch, Lacy P.:
  chilling injury of eggplant fruits, 14140
  color changes and chilling injury of pink tomatoes held at various temperatures, 11356
McCormick, S & E, Inc., *see* S & E McCormick, Inc.
McCoy, Ernest E., jr., improved Carlson stress meter, 14576
McCracken, David S.:
  foreign trade regulations—
    Colombia, 4015
    Ecuador, 12778
McCready, R. M., bibliography of research on utilization of sugar beets, 8131
McCreary, Ben F., separation trajectory characteristics resulting from separating 2 vehicles in near-earth orbits, 2406
McCrum, Blanche P., bibliographical procedures & style, etc., 12228
McCulloch, Frank W., remarks, Oct. 28–29, 1965, 1321

McCulloh, Thane H.:
gravimetric effects of petroleum accumulations, preliminary summary, 7482
promise of precise borehole gravimetry in petroleum exploration and exploitation, 9017
McCurdy, Dwight R., private campground user, 8968
McDaniels, David L.:
electrical resistivity and conductivity of tungsten-fiber-reinforced copper composites, 15183
stress-rupture properties of tungsten wire from 1200° to 2500° F, 12349
MacDonald, Gilmour C.:
relief, 12880, 16064
veto, 17170
McDonald, James E., effects of iron stain on concrete construction joints, 11899
McDonald, Philip M.:
broadcast burn in 2d-growth clearcuttings in north central Sierra Nevada, 17686
Pacific madrone, 10585
McDougal, Robert B., mineral industry of Oklahoma, 1139
Mace, Arnett C., jr., accuracy of soil moisture readings with unsealed access tubes, 13363
McGarry, Thomas, F., remarks, June 13, 1966, 12492
McGavin, Joseph J., relief, 15800
McGee, Henry W., appointment as Acting Postmaster of Chicago, swearing-in ceremony (address), 16778
McGee, Leonard A., midcourse navigation and guidance systems using optimal filtering and linear prediction, 7890
McGehee, John R., fragmenting-tube energy-absorption process, 6442
McGibony, John R., hospital central medical and surgical supply services, 1424
McGrath, James R., scaling underwater exploding wires, 16754
McGrew, John R., strawberry diseases, 15443
McGullock, David S., slide-induced waves, etc., caused by earthquake of 1964, at Kenai Lake, Alaska, 13411
Machado Espinosa, Mario V., relief, 11719, 15682
Machalilla phase, early formative period of coastal Ecuador, 6499
Machine guns, history, evolution, and development of manual, automatic, and airborne repeating weapons, 1385
Machine records codes, addressing method using concise word codes as memory addresses, USSR study, 878
Machine shops, census of manufactures, 1963, industry statistics, 6911
Machine tools:
and accessories, investment opportunity information, list, 2131
industry, USSR study, 964
1961–64 world trade, 3871
portable, industrial plant equipment handbook, 8804
replacement analysis work sheets, preparation and review guide, 16955
self-aligning system of programmed control, USSR study, 1006
Spain, foreign market survey, 178
Machine translation, *see* Translating machines.
Machinery:
basic machines, Navy training course, 1341
building industry, cybernetics, analysis aids in production planning, 12180
chemical machine building, USSR industrial development, translations, 3660
electrical—
discharge machining of high-strength metals and alloys, USSR studies, 14832
Machinery—Continued
electrical—continued
equipment and supplies, census of manufactures, 1963, industry statistics, 6912
transmission, distribution, and industrial apparatus, census of manufactures, 1963, industry statistics, 8336
except electrical and industrial, commodity transportation survey, shipper series, 220
except electrical, electrical machinery, census of manufactures, 1963, manufacturing plants, location, 12701
general industrial, and equipment, census of manufactures, industry report, 5449
heuristics of man and machine, USSR study, 13458
industrial—
except electrical, commodity transportation survey, shipper series, 219
machinery repairmen, employment outlook, 9250
Laplace-Galois transform in theory of series machines, USSR, study, 9154
machine building—
computer center of plant, USSR study, 6190
development, structural changes, output capacity, etc., USSR study, 10816
enterprises, new instructions for calculating production cost, 1014
new prices, USSR study, 12181
production specialization, problems, USSR study, 902
machine penetrates into secrets of brain, USSR study, 16474
man-machine relationships, USSR studies, 9182
manufacturing, industry wage survey, 7670
marine, vibration isolation, USSR study, 2240
mechanical equipment, auxiliary, Spain, foreign market survey, 178
new laboratory for electric machines in electrical engineering faculty in Belgrade, Yugoslavia, 16498
power, USSR industrial development, translations, 3666
repairman 3 & 2, Navy training course, 17976
safeguarding, basic principles, 1084
safety dial, 1086
service industry, census of manufactures, 1963, industry statistics, 6911
special industry—
except metalworking machinery, census of manufactures, industry reports, 3901
Federal item identification guides for supply cataloging, supplements, 2939
theory of machines, USSR study, 4594
USSR—
industrial development, translations, 3657
machine building—
important reserve for increasing production, 2179
large-scale production, trends, 966
wages and production cost, 2177
see also names or types of machinery—*also* subjects for which machinery is used.
Machinery of the brain, 10794
Machines, *see* Machinery—*also* special kinds of machines, e.g. Automatic machinery.
Machining:
blind, flexible drive allows operations in hard-to-reach areas, 17899
electric pulse, metals and alloys, USSR study, 16477
electronic machining and treatment of materials, USSR articles, 9184
mill profiler machines soft materials accurately, 11044

Machining—Continued
occupations, employment outlook, 9249
operations, AMC pamphlet, 14209
precision, new physical and chemical methods, USSR study, 936
cancellation, 14789
properties of molucca albizzia and nepal alder, species grown in Hawaii, 10563
stop and depth indicator aid to precise tolerances, 9463
styrofoam, fixed vacuum plate clamps, 12323
Machinists, supervisor, examination announcement, 9993
see also Aviation machinists.
Machta, L., carbon-14 measurements in atmosphere, 5392
McIntire-Stennis act, *see* Forests and forestry.
McIntire-Stennis cooperative forestry research program, fact sheet, 5837
MacIntyre, Ailsa A., relief, 474
Mack, J., transmission study for tandem-rotor shaft-driven heavy-lift helicopters, 138
MacKallor, Jules A., aeroradioactivity survey and geology of Puerto Rico, ARMS–1, 11419
McKay, James M., X–15 landing loads, 4979
Mackay, John S., manned Mars landing missions using electric propulsion, 4940
McKay, Winston L., relief, 16025, 17086
McKay Creek National Wildlife Refuge, general information, 2042
McKee, Charles W., Project Fire photographic summary and record of reentry phenomena at hyperbolic velocities, 17913
McKenzie, Robert L., chemical kinetics behind normal shock waves in mixtures for conditions typical of Mars entry, 6451
MacKenzie, Vernon G.:
clean air act amendments and solid waste disposal act of 1965 (P.L. 89–272), 2107
paper, Sept. 20, 1965, 1412
McKeon, J. T., primary piping flexibility analysis for liquid-metal-cooled fast breeder reactors, 5388
McKiever, Margaret F.:
health of women who work, 2530
national health survey of occupational health interest, 13975
trends in employee health services, 1437
McKinley County, N. Mex., mining methods and costs at section 23 uranium mine, Homestake-Sapin Partners, 4755
McKinney, Carl M.:
analyses of crude oils from 546 important oilfields in United States, 17852
analyses of some crude oils from fields in west Texas, 6326
McKinney, John R., relief, 12890, 14367
Mackintosh, Helen K.:
administration of elementary school programs for disadvantaged children, 16225
educating disadvantaged children—
in middle grades, 4298
under six, 5871
McLaughlin, Thad G., ground water in Huerfano County, Colo., 7490
Maclay, Robert W., reconnaissance of geology and ground-water resources in Aurora area, St. Louis County, Minn., 7491
McLean, Alan A., occupational mental health, emerging art, 12479
McLean, F. Edward, sonic-boom characteristics of proposed supersonic and hypersonic airplanes, 16667
McLean, John D.:
integrating orbital equations of motion, 16687
midcourse guidance for return from moon to geographically fixed landing site, 6461
McLemore, H. Clyde, jet-induced lift loss of jet VTOL configurations in hovering condition, 11062
McLeod gauges, *see* Pressure gages.
MacMahon, Brian, age at menopause, United States, 18080
McMillan, A. R., hypervelocity impacts into stainless-steel tubes armored with reinforced beryllium, 13826
McMillan, John L.:
portrait, acceptance, ceremonies, 17163
print as House document, report, 17209
McMullin, Leslie D., list of fishery associations in United States, 11973
McMurdo Ice Shelf, Antarctica, mode of uplift of fish and fossiliferous moraines on, 5344
McNabb, Victor O., relief, 8521
McNamara, F. T., basic data on economy of Tanzania, 5551
McNamara-O'Hara service contract act of 1965, *see* Government contracts.
McNary Dam, fish passage report, 667, 11888
MacNeal, Richard H., use of filament wound toroids as pneumatic shock absorbers, 15071
McNeely, Richard L., construction and operation of Cobb pelagic trawl, 4408
McNeil, Robert L.:
addresses—
Apr. 17, 1966, 8418
May 23, 1966, 10015
McNeil, William J., distribution of spawning pink salmon in Sashin Creek, southeastern Alaska, and survival of progeny, 16313
McNitt, Harold A., basic data on economy of Sweden, 12772
Macpherson, Thomas C., jr., relief, 15805
McQuade, Lawrence C.:
remarks—
Apr. 27, 1966, 8435
June 14, 1966, 10038
June 23, 1966, 11511
Aug. 8, 1966, 12790
Macrobius, LAC 43, lunar chart, 84
Macromolecules, *see* Molecules.
Macropsidae, catalogue, 12587
McVey, Daniel H., grain cooperatives, 2000
McVicker, Thomas R., right-of-way traverse and area computation, 5126
McWithey, Robert R., damping characteristics of built-up cantilever beams in vacuum environment, 1251
Macy, John W., jr., nomination, hearing, 10366
Macy, Paul, fishery and oceanography translations, 2978
Madagascar, *see* Malagasy Republic.
Madav, Bela C., area handbook for Malaysia and Singapore, 9896
Maddagiri, Heather G., relief, 11712, 17179
Maddagiri, Helena G., relief, 11712, 17179
Maddalon, Dal V.:
aerodynamic characteristics of sharp right circular cone at Mach 20.3, etc., 6420
longitudinal aerodynamic characteristics of blunted cone reentry configurations, 7848
Madden, Howard L.:
comparison of airman qualifying examination with differential aptitude tests, 15488
estimating reading ability level from AQE general aptitude index, 8199
Maddock, Stephen J., rural male residents' participation in outdoor recreation, 4455
Maderak, M. L., sedimentation and chemical quality of surface water in Heart River drainage basin, N. Dak., 14755
Madison County, Idaho, geology of Garns Mountain quadrangle, 9010
Madison group, stratigraphy, with discussion of karst and solution-breccia features, 4522
Madison Memorial Building, *see* James Madison Memorial Building.
Madrigal, Guillermo M., relief, 1902

Madrone:
crown and tree weights, 17688
Pacific madrone, bibliography, 10585
Magazines, *see* Periodicals.
Magill, Arthur W., recording esthetic and biologic changes with photographs, 2071
Maglieri, Domenic J.:
experiments on effects of atmospheric refraction and airplane accelerations on sonic-boom ground-pressure patterns, 15152
ground measurements of shock-wave pressure for fighter airplanes flying at very low altitudes, etc., 12342
Magnesium:
alloys—
protective coatings, corrosion resistance of flame-fused teflon to sodium chloride solutions, 12432
wrought products, tolerances, Federal standard, 10516
compounds, minerals yearbook chapter, 15013
mill products, current industrial reports, 2817, 5480
minerals yearbook chapter, 13687
primary, quarterly report, 3415
slurry of particles produced in liquid hydrocarbons by vapor condensation process, 7771
Magnetic amplifiers, *see* Amplifers.
Magnetic bottles, *see* Stellarators.
Magnetic brakes, *see* Brakes.
Magnetic control of flow of hot combustion gases in hydrogen-oxygen combustion at 14 atmospheres, 2425
Magnetic fields:
axisymmetric and multipolar, nonadiabatic particle losses, 2437
concentration gradients produced in electrolytes, investigation, 9044
dc to dc converter eliminates large stray magnetic fields, 15106
due to solid and hollow conical conductors, 2373
earth, electron collection by spherical satellite, 17877
effects on—
aerospace biology, USSR study, 13537
heat transfer at stagnation point of argon gas, 6436
IMP–I magnetic test program, 7885
influence on central nervous system, USSR study, 14823
magnetic breakdown in finite 1-dimensional model with infinite potential relaxed, 7823
magnetobiology, USSR study, 2180
magnetohydrodynamic boundary layer between parallel streams of different magnetic fields and temperatures, 7748
marine telluric currents, USSR study, 13525
outside perfect rectangular conductors, 15177
particles and fields, 1958–64, significant achievements, 7755
single turn coil behavior under dynamic load conditions, 4945
strong, niobium thin films are superconductive at low temperatures, 7778
superconducting, generator, for use in 1-megawatt space power systems, 7864
underwater magnetic measurements on drifting station, USSR study, 13517
Magnetic fluid readily controlled in zero gravity environment, 1211
Magnetic latches provide positive overpressure control, 12320
Magnetic materials:
temperature effects on maximum induction, instrument system for determination, 15175
transportation of magnetized materials, Federal aviation regulations, 691, 14608
Magnetic memory, wire matrix uses very little power, 1234
Magnetic mirrors, high-energy ion beams used to accelerate propellant along tube of flux, 16702
Magnetic Observatory, Automatic Standard, *see* Automatic Standard Magnetic Observatory.
Magnetic recorders, *see* Tape recorders.
Magnetic recording, tape, technology, 2375
Magnetic resonance:
electron paramagnetic, spectroscopy for studying surface defects and adsorbed molecules, 7871
fatigue machine for operation at resonance in vacuum, 1368
see also Nuclear magnetic resonance.
Magnetic separators, matrix-type, 4800
Magnetic tape:
handler, disclosures on, 7821
recording, technology, 2375
static friction testing device, 9526
track, feeding Ural 2 electronic computer with information obtained by means of V. M. Anan'yev's multi-input analyzer and recorded, USSR study, 7623
Magnetic torque, *see* Torque.
Magnetic waves, radiofrequency power transfer to ion-cyclotron waves in collision-free magnetoplasma, 7876
Magnetically operated limit switch has improved reliability, minimizes arcing, 12312
Magnetism:
magnetic roasting of iron ores with ferrous scrap, 7716
significance of dimensionality in spin wave theory of ferromagnetism, 11099
testing for cracks with paramagnetic fluorescent testing media, East German study, 4682
see also Magnetograms—*also* headings beginning Magnetic.
Magnetite:
reclaiming in dense-medium circuits by froth flotation, 13697
reduction, relation of heat of adsorption to heat of activation, 4789
Magnetobiology, USSR, 2180
Magnetograms, MHV series, 5525–28, 10003
Magnetohydrodynamics:
boundary layer between parallel streams of different magnetic fields and temperatures, 7748
electrode increases operating pressure of MHD accelerotor, 1231
hydromagnetic wave propagation near 1 c/s upper atmosphere, 15211
role of conductivity in hydromagnetic stability of parallel flows, 2428
Magnetometers, used as copper magnetoresistance devices, 13839
Magnetoresistance, *see* Electric resistance.
Magnetostriction, monotonic, for nonferromagnetic materials, 16674
Magnets, uniform-field bending, calculations, 1359
Magnuson, Warren G., tribute honoring (remarks), 11490
Magyar tudomany (periodical):
translations, 9164
Mah, Alla D., thermodynamic properties of vanadium and its compounds, 7706
Mah, Choy-Sim, relief, 1906
Mahar, Mary H., school library supervision in large cities, 7319
Mahdi, Mahmoud A., mortality of some species of fish to toxaphene at 3 temperatures, 11977
Mahlstede, J. P., application of granular herbicides to ornamental plant materials in nurseries, 14103
Mahoning River, and tributaries, pollution of interstate waters, conference, proceedings, 6572
Mail carriers:
city delivery, supervision, Post Office Dept., GAO report, 6017
rural, role in national life(address), 13918

Mail contracts, *see* Postal service.
Mail handlers, optical scanner, use for sorting, etc. (address), 2509
Mail matter:
  carrying and handling, cost ascertainment report, 6563
  classes of mail, 8675
  false or misleading, amend U.S. code—hearing, 13054
    report, 15868
  fraud and mailability, enforcement action, monthly releases, 3005
  mail-handling equipment, savings available through more extensive use by Post Office Dept., GAO report, 809
  PHS handbook mechanical addressing lists, 1428
  transportation by regulated motor carrier, hearings, 11675, 14436
  see also International postal service.
Mail-order business, firearms, interstate traffic, juvenile delinquency investigation, report, 1924
Mailing list houses, national directory, 18093
Mails, *see* International postal service—Postal service.
Maine:
  census of manufactures, 1963, manufacturing plants, location by county, industry, and employment size, 14254
  Central Aroostook Soil and Water Conservation District, conservation farming systems cross farm boundaries (colored poster), 9678
  conifers, estimating tree specific gravity, 10595A
  county business patterns, 14264
  electric rate book, 710
  farm labor, importation into U.S., investigation, hearings, 4130
  labor laws affecting women, summary, 8115
  landings—
    fish and shellfish, 3174
    annual summary, 10520
  life tables, 18027
  mineral industry, minerals yearbook chapter, 1130, 17843
  northern, paleozoic gastropoda from Moose River synclinorium, 17721
  potato futures, 8444
  sardines, firms canning, list, 777
  southern, forest, average growth rates, 17685
Maine, Gulf of:
  marine geology of northeast portion, 10004
  zooplankton in coastal waters, 1964, seasonal and areal distribution, 13349
Maine Science, Engineering, and Resources Commission, establish, report, 10166
Maintenance:
  aeronautical antifriction bearings, handbook, 11157
  aerospace maintenance safety, 2644
  air frame, fundamentals, Army technical manual, 134
  aircraft, maintenance, preventive maintenance, etc., Federal aviation regulations, 17646
    changes, 7351, 8877–78, 14600
  combat vehicles, Army Dept., GAO, review, 14736
  control lines, FAA handbook, 16256
  electronics, Coast Guard manual, amendments, 5537, 10008, 11506
  equipment, maintainability demonstration, military standard, 8813
  facilities, Navy design manual, changes, 1569
  fire protection equipment, FAA handbook, 5915
  General Electric 37,000 gpd thin-film distillation pilot plant, 9040
  guide for design, engineering design handbook, AMC pamphlet, 9883
Maintenance—Continued
  irrigation operation and maintenance bulletin, 3090
  management, depot, field, and organizational, Air Force manual, 11370
  programmed-instruction course—
    radio transmitting set AN/WRT–1, 13908
    radio transmitting set AN/WRT–2, 12418
  provisioning techniques, Army technical manual, 133
  railway cars, Army technical manual, 6848
  soldiers individual equipment, field manual, 3821
  steam, hot water and compressed air distribution systems, manual, 5255
  VHF omnirange equipment, FAA handbook, 8874
  VORTAC tone control equipment, FAA handbook, 7349
Maintenance shops, equipment, Federal item identification guides for supply cataloging, supplements, 2934
Maio, Domenic A., effect of gas density on work of breathing in man, 8216
Maisel, Sherman J.:
  remarks—
    Nov. 11, 1965, 731
    Dec. 28, 1965, 2024
    Feb. 24, 1966, 5955
    Sept. 30, 1966, 16283
Majka, Emilia, relief, 476
Makata Island, *see* French Polynesia.
Maki, A. C.:
  deflection and stresses of tapered wood beams, 4462
  stress distribution in orthotropic half-plane subjected to concentrated load, 10594
Malacca Strait, sailing directions, changes, 7957
Malagasy Republic:
  background notes, 8046
  health information for travel in, 12470
  mineral industry, minerals yearbook chapter, 10915
  tracking stations, agreement, 16857
Malaria:
  anti-malarial measures in Kazakh and Tadzhik SSR, 10815
  research in Rumania, 6195
Malathion:
  aerial spray controls pine needle-sheath miner, 17689
  drying trays treated to protect raisins from insects, 14111
  wheat protectant against insect damage in small bins, errata, 6754
Malawi:
  background notes, 16849
  mineral industry, minerals yearbook chapter, 7702
Malaysia:
  area handbook, 9896
  labor laws and practice, 4713
  mineral industry, minerals yearbook chapter, 2333
  Thailand boundary, study, 2580
Maldive Islands, background notes, 11240
Malenka, Wilbert T., longwall mining in Pennsylvania anthracite mine, 7713
Males, *see* Men.
Malheur National Wildlife Refuge, mammals, list, 10536
Mali:
  agricultural commodities, agreement, 11262
  background notes, 11241
  gazetteer, official standard names, 2089
  mineral industry, minerals yearbook chapter, 9362
  Soviet astronomical and geophysical research, USSR study, 935
Malignant tumors, *see* Cancer.

Malinin, Theodore, processing and storage of viable human tissues, 16808
Mallophaga, *see* Lice.
Mallory, W. W., mineral resources of Flat Tops primitive area, Colo., 13403
Malloy, R. J., marine geology of northeastern Gulf of Maine, 10004
Malmberg, Glenn T., available water supply of Las Vegas gound-water basin, Nev., 828
Malone, Kevin, mineral industry of Alaska, 2320
Malt, trade and tariff, information, summaries, 14045
Malta:
labor conditions, 13639
U.S. naval vessels for repair services, extend visit, agreement, 12531
vessel deployment for repair services, agreement, 8085
Mamay, Sergius H., Tinsleva, new genus of seed-bearing callipterid plants, 14752
Mammals:
aquatic, morphological features, USSR study, 14921
Brigantine National Wildlife Refuge, list, 4420
cold-adapted and room-temperature, comparison of effects of dieldrin poisoning, 11447
diving and nondiving, cardiovascular responses to apnea, 8214
Erie National Wildlife Refuge, list, 4421
Malheur National Wildlife Refuge, list, 10536
Missisquoi National Wildlife Refuge, list, 4422
Moosehorn National Wildlife Refuge, list, 4419
National Elk Refuge, list, 4418
predatory, hearings, 11672
see also Carnivores.
MAMOS, monitor system under IBSYS for IBM 7090/7094, 10955
Man:
acclimatization and ophthalmology, USSR studies, 12151
atoms, nature, and man, 11441
automatic machines and man, USSR study, 4589, 16472
coordination of motor and vegetative functions during muscular activity, USSR studies, 14824
eclipse burns in humans, 12634
gastric and intestinal temperature, utilization of radiotelemetry for study, 6209
heuristics of man and machine, USSR study,13458
human embarked into outer space, USSR study, 6227
low frequency pressure fluctuations effects, 6464
man-machine relationships, USSR studies, 9182
marginal man and military service, review, 8255
mastering of moon, USSR, 12184
monograms for determining height-weight-circumference relation in human subjects, USSR study, 2277
normal fecal bacterial flora in intestinal tract, study, 10942
occupational peculiarities of perception of one human being by another, USSR study, 7569
oxygen in humans, recent USSR studies, 7558
physiological reactions to space flight, USSR study, 13515
response to noise frequencies below 50 cps, 4948
response to sustained acceleration, 10978
restore man, national health goal, 18075
self-locomotion capabilities with space suit in lunar gravity, exploratory study, 12332
Man—Continued
winning world-wide war on hunger (address) 9834
work of breathing, effect of gas density, 8216
see also Anthropometry.
Man (nationality), *see* Yao.
Man-hours, *see* Labor.
Man-in-space, *see* Outer space.
Man-machine system, visual feedback loop, effects of time delay, 15063
see also Human engineering.
Management, *see* Administrative management. — Industrial management — Planning—Administrative management.
Management analysts, career opportunities in Commerce Dept., 7002
Management interns, Army Dept. program, 3825
Management Services Office, Agriculture Dept., appropriations, 1967, hearings, 8648, 11787
Managers:
scientific and technical information analysis center, ad-hoc forum—
directory, 12677
proceedings, 12676
traffic, industrial, employment outlook, 9267
Manasquan, N.J., to Cape Hatteras, N.C. and Chesapeake Bay, coastal warning facilities chart, 12561
Manassas National Battlefield Park, general information, 13883
Manchester, Alden C., economics of dairy marketing, bibliography, 13264
Manchuria, 39th Army in Khingan-Mukden operation, 1945, USSR study, 1065
Mancos shale, *see* Shale.
Mandl, Harold J., psychological aspects of disability and rehabilitation, 9759
Mandrels:
permit uniform welding of out-of-round tubing, 13758
rotating, speed assembly of plastic inflatables, 7791
Maneuvers, *see* Flight.
Manganese:
activity in liquid iron-manganese alloys, 12260
extraction from Georgia umber ore by sulfuric acid-ferrous sulfate process, 1163
mineral industry survey, monthly, 3175
minerals yearbook chapter, 17838
Minnesota manganiferous ores, laboratory processing techniques, 10918
occurrences in Eureka-Animas Forks area, Colo., 16558
ores, metallurgical grade, disposal from national and supplemental stockpile—
hearings, 11643
law, 15722
reports, 10152, 16089
recovery from—
ores by reduction-volatilization processes, 6324
slag formed by selective oxidation of high-manganese pig iron, 6319
vapor toxicity of new antidetonator, manganese cyclopentadienyltricarbonyl, 899
Manganese cyclopentadienyltricarbonyl, *see* Manganese.
Manganese sulfate:
crystals, recovery from solution by submerged combustion evaporation, etc., 9382
decomposition by partial reduction process, 10930
Manger, G. Edward, method-dependent values of bulk, grain, and pore volume as related to observed porosity, 7480
Mangialardi, Gino J., jr., lint cleaning at cotton gins, etc., 16943
Mangoes, Florida, ripening and storage, 47
Manhart, J. Kenneth, acoustical study of KIWI B nuclear rocket, 4825

Manifolds:
brazing retort design concept may minimize air contamination and enhance uniform gas flow, 15101
combustion chamber inlet, separates vapor from liquid, 6378
inlet feedpipe, assembly for M–1 rocket engine, performance evaluation, 6457
liquid coolant, welds chilled by, 13789
Mann, Carl M., Navy civil engineer, 8253
Mann, Charles N., forces in balloon logging, 4446
Mann, Pete, I guess we're just impatient, 13273
Manned Orbiting Laboratory, launch facilities for program, hearing, 7198
Manned space flight, 13706
Manned Space Flight Office:
Apollo program—
forecasts and appraisals for management evaluation, 12285–286
structural systems and program decisions, 12284, 15088
errata, 15087
Manned spacecraft, *see* Spacecraft.
Manners and customs:
Negro in the West, social and economic conditions, 10878, 14983
ritualism in Islam and its social essence, USSR study, 12123
Manninen, Elisabeth, relief, 15798
Manning, James C., wind velocity profiles measured by smoke-trail method at Eastern Test Range, 6453
Manpower:
advisory committees, 9194
and automation research sponsored by Office of Manpower, Automation and Training, 2282
automation research monographs, 1080, 14961
design and drafting, 1965–75, report, 17800
development and training act of 1962—
absences of trainees in programs, GAO report, 8993
amend rel. to labor mobility demonstration projects, report, 13129
amendments of 1966—
hearings, 13031, 17592
reports, 15906, 17525
Chicago, Ill., training facilities, selection, etc., GAO report, 12006
employers guide to on-the-job training, 1631
guidelines for research grants, 16513
Lorton Youth Center program, chance on the outside, 11867
program comparison, 2283
programs for cooks, 10427
public assistance recipients, training, 10842
research and training, report of Secretary of Labor, 7646
trade unions and MDTA, 10845
training and activities, report of Secretary of Health, Education, and Welfare Department, 9026
summary, 4696
Federally assisted development programs, planning staff study, 10840
Great Britain and Scandinavia, active policies, 11649
health, source book, nursing personnel, 13969
help for handicapped, MDTA training programs, 7641
improved management practices, etc., by Federal Government, 1864, 8677, 17391
local employment facilities of your community service center, 4330
manpower evaluation report (series), 2283, 10842
manpower services act of 1966, hearings, 10364
Manpower—Continued
maritime, shortage, hearings, 17389
mental health manpower, current statistical and activities reports, 1308, 11105, 12476
mentally restored, resource for Federal Government, 6485
national emergency standby regulations and instructions, Federal personnel, 17041
policy and program seminar—
automation, skill and manpower predictions, 17802
church and antipoverty program, 17801
expanding employment in pluralistic economy, 17803
integration in public schools, 1081
on the line, 6252
structural unemployment in United States, 4700
training in perspective of technological change, 4699
policy and programs in 5 western European countries, 16515
policy in U.S., history, 7231
policy in United States, Canada, and Europe, seminars—
reports, 4230
study papers, 4230
professional, scientists, sociologists, nurses, etc., recruit through Professional Placement Network, 11887
report of Committee on Manpower, National Citizens' Commission, 1547
report of the President, 1965, hearings, 1950
report of the President, 1966, statistics—
departmental edition, 6251
document edition, 5622
reprint, 13589
requirements and supply of labor, productivity trends and unemployment (address), 6272
requirements, forecasting, 2294
research and development, pharmaceutical industry, trends, 11112
research bulletins, 7642, 12197, 16514–515, 17800
scientific and engineering manpower in Communist China, 2478
scientific and technical, impact of Federal research and development policies, hearings, 1949
selected readings, 7231
hearings, 4230
services act of 1966, report, 13129
services for druggists of America, provided by local public employment service offices, 1988
social work manpower, closing the gap, 6046
special programs, 10844
unused, Nation's loss, 16514
use in wood-products industries of Oregon and Washington, 10603
USSR, trends, etc., 14372
Manpower, Automation and Training Office, manpower and automation research sponsored, 2282
Mans, *see* Yao.
Mansfield, Mike, Vietnam conflict, report, 4218
Manson, S. V., finned tube gas-to-liquid heat exchangers for Brayton cycles in space, 9430
Manson unit, *see* Chief Joseph Dam project.
Manual arts, *see* Arts and crafts.
Manuals, *see* names of departments, etc., issuing manuals—*also* subjects.

Manufactures and manufacturers:
annual survey of manufactures, 182, 3874, 12697, 14249
industry groups and industries, general statistics, 182
value of shipments by classes of products, 3874
anti-friction bearings, shipments and unfilled orders, 16988
carload waybill statistics, 6082
manufactures, etc., 7531
census, 1963—
area statistics, 14250–253, 15567–573, 16992–995
EC series, 223, 1707
final industry reports, announcement and order form, 3872
final subject reports, announcement and order form, 16991
industry reports, 1702–4, 3884–3906, 5439–51
industry statistics, 6887–6914, 8328–38, 11452–453
manufacturing activity in Government establishments, 3907
miscellaneous industries, industry report, 6914
preliminary reports, 2739
publications program, 1708–9
special reports, 3907, 6915, 11454–456, 12698–701, 14254–260, 15574, 16996–997
census publications, price list, 5101
earnings series—
1939–Sept. 1965 summary, 1088
1939–65, summary, 9204
enterprise statistics, 1963, preliminary reports, 11475
exports sales and orders, current industrial reports, 2817
Federal supply code for manufacturers—
excluding United States and Canada, supplements, 2966
United States and Canada—
code to name, 602
supplements, 2967
name to code, 601
supplements, 2968
financial report of corporations, quarterly, 3440
general statistics, 1964, divisions and States, 14249
industries, regional wood use, 8967
injury rates in manufacturing industries, 3066
labor unit cost in manufacturing, 1950–65, trends in 9 countries, 17810
manufacturers' part and drawing systems, Defense Dept. handbook, 14514
manufacturers' shipment, inventories, and orders, current industrial reports, 3179
miscellaneous manufactures, census of manufactures, 1966 manufacturing plants, location, 11455
part and drawing numbering systems, Defense Dept., 5843, 10383
plants, location by industry, county, and employment size—
apparel and related products, 12698
chemicals and allied products, 12700
East North Central division, 14256
East South Central division, 14259
furniture and fixtures, 12699
instruments and related products, 15574
leather and leather products, 12698
lumber and wood products, 12699
machinery except electrical, electrical machinery, 12701
Middle Atlantic division, 14255
miscellaneous manufactures, 11455
New England division, 14254
ordnance and accessories, 11455
Pacific division, 16997
paper and allied products, printing and publishing, 11454
petroleum and coal products, 12700
Manufactures and manufacturers—Con.
plants—Continued
primary metal industries and fabricated metal products, 11456
Rocky Mountain States, 14260
rubber and plastics products, 12700
South Atlantic division, 14258
stone, clay, and glass products, 11455
textile mill products, 12698
transportation equipment, 15574
West North Central division, 14257
West South Central division, 16996
sales management, bibliography, 9644
salesmen, employment outlook, 9272
small manufacturers, management aids, annual compilation, 1456
U.S. participation in overseas trade fairs, sales opportunities, 4574
wage developments, summary release, 3684
see also names of manufactured articles.
Manures, *see* Fertilizers.
Many faces of change, address, 9931
Manzanita, pringle, shrub seedling regeneration after controlled burning and herbicidal treatment of dense chaparral stands, 2072
Mapas-itinerarios, descubra um mundo novo, visite os E.U.A., 14054
Maple, William R.:
forest species compared in Ozark plantations, 4460
shortleaf pine stands 5 years after seedfall on prepared sites, 5989
Maple:
decay and discoloration, organism interactions, 8974
sugar, air-layering, 4470
sugar, germination, influence of temperature and early spring conditions, upper Michigan, 5983
Mapping (mathematics), *see* Transformations (mathematics).
Maps and charts:
accuracy of geodetic measurements in geological survey operations, pro and con, USSR study, 14907
Aeronautical Chart and Information Center, chart updating manual, 2744
cartographic representation of morphologic species of loess on large scale topographic maps, Communist China study, 17759
cartography, Soviet studies, 6166
catalog of copyright entries, 5838, 17602
Census Bureau, United States maps, GE–50 series, 272, 9971–73, 17019
census publications, price list, 5101
Coast and Geodetic Survey:
aeronautical charts—
dates of latest editions, 2840
1966 catalogs, 3990, 6980
flight information publications, dates of latest editions, 2841
instrument approach procedure charts—
including airport obstruction charts and turbine data sheets, 3068
military fields, 3196
nautical chart catalog—
Atlantic and Gulf Coasts, Puerto Rico, and Virgin Islands, 6988
Pacific Coast, Hawaii, Guam and Samoa Islands, 6989
congressional districts, 90th Congress, 7019
copyrighted, 1956
facsimiles of rare historical maps, list of reproductions sold by publishers and distributors, 17822
Federal item identification guides for supply cataloging, supplements, 2939
FPC principle electric facilities, maps (series), 7374–81
Hungarian cartography—
achievements, 12176
conditions, problems, and plans, 16487

Maps and charts—Continued
International Indian Ocean Expedition cruises, track charts, 15232
lunar charts—
AIC 58C, Gambart, 86
AIC 58D, Reinhold, 87
AIC 59C, Triesnecker, 8196
AIC 59D, Palias, 8197
AIC 60C, Arago, 14180
AIC 60D, Agrippa, 88
AIC 61D, Maskelyne D, 14181
AIC 77A, Flammarion, 89
AIC 79A, Capella, 14182
LAC 43, Macrobius, 84
LAC 44, Cleomedes, 6802
LAC 92, Byrgius, 8195
LAC 97, Fracastorius, 85
LAC 98, Petavius, 14179
RLC 6, Hypatia, 14186
RLC 7–9, Sabine, 14186
RLC 13, Ptolemaeus, 14187
RLC 14–17, Alphonsus, 14187
Mars (planet), MEC–1 prototype, 6803
price list, 13953
tour planner maps, travel a new world, see U.S.A.—
German edition, 14062
Portuguese edition, 14054
United States of America, Federal aid highways, national system of interstate and defense highways, Federal-aid primary highway system, and U.S. numbered highway system, 1450
Weather Bureau, daily synoptic series, 2627
see also Atlases—*also* subjects—*also* names of localities.
Mar del Plata convention, 13085
Marble setters, employment outlook, 9216
Marchant, Leland C., nitrogen gas in oilfields on Nesson anticline in North Dakota, 17857
Marchesan, Paride, relief, 1897
Marcus, Stanley, effect of atropine and ether on parenterally induced Coxsackie B infection in mice, 78
Mardessich, Branka, relief, 12876
Marek, Czeslawa, *see* Piotrowski, Maria A.
Marengo County, Ala., land held by B. A. Cogle, adjudicate claim, 12864, 14365, 16013
Margason, Richard J., longitudinal stability and control characteristics of powered model of twin-propeller deflected-slipstream STOL airplane configuration, 13808
Marginal man and military service, review, 8255
Marianas Islands:
fishes, families from Kraemeriidae through Antennariidae, 7937
Guam, geology and hydrology (series), 4519
see also Guam Magnetic Observatory.
Marianski, Przemyslaw, *see* Nowakowski, Przemyslaw.
Marine aids, *see* Navigation.
Marine animals, *see* Marine fauna.
Marine atlases, *see* Atlases.
Marine biology:
biological research laboratory, La Jolla, Calif., use of land donated by University of California, law, 404
central Asia and Kazakhstan, hydrobiological research, USSR, 9147
inspection, repair and preservation of waterfront structures, operational handbook, 5256
Marine borers, effect on various wood species, marine biology operational handbook, 5256
Marine Corps:
ammunition, status, hearings, 10324
antimechanized operations, Fleet Marine Force manual, 2309
Marine Corps—Continued
chronology—
1775–1934, 10895
1935–46, 10896
Fleet Marine Force manual FMFM series, 2309, 4743–44, 6279, 9350–51, 10894, 13654–655, 16547–548, 17826
Fleet Marine Force units, manual, air movement, 13654
force in readiness, lay leader's handbook, 7685
historical bibliographies series, 9349, 10893
historical reference pamphlets, 10895–897
history, annotated reading list, 10893
infantry regiment, Fleet Marine Force manual, 13655
management review (periodical), 3254
Marine division, Fleet Marine Force manual, change, 4744
materials handling equipment and commercial-design trucks, potential savings through improvement in management, GAO report, 14732
officers, general, authorize increase reports, 15838, 15859
officers, register—
departmental edition, 11152
document edition, 10099
procurement of equipment and spare parts, GAO report, 10619
professional reading guide, 16750
publications, price list, 17996
recipe service, 5182
retirement guide, 17827
rifle companies and platoons, Fleet Marine Force manual, 16548
rifle squad, manual, 17826
troop leaders guide, 16547
uniforms, regulations, 13656
World War II, bibliography, 9349
Marine Corps Reserve:
colonels, authority for promotions—
law, 397
reports, 548, 1842
5-cent commemorative postage stamp (poster), 13922
history, 1st 50 years, 14987
reserve marine (periodical), 3472
retirement guide, 17827
Marine engineering, regulations and material specifications, 14316
Marine fauna:
amphipoda of atolls in Micronesia, 2466
marine-animal products, food for animals, firms canning, list, 778
poisonous and venomous marine animals of world, 8818
poisons, biochemistry, USSR study, 6203
precooked marine products, simultaneous radiation-heating treatment, 11425
Marine geology of northeastern Gulf of Maine, 10004
Marine paleoecology, *see* Paleoecology.
Marine salvage and hull repair, 15520
Marine science, *see* oceanography.
Marine Science, Engineering and Resources Commission, establish, law, 11563
Marine troop leaders, guide, 16547
Marine zoogeography, *see* Zoogeography.
Mariner, *see* Spacecraft.
Mariners, *see* Notice to mariners.
Mariners weather log (periodical), 3180
Marines, Lebanon, 1958, historical reference pamphlet, 10897
Marino, Vicente Fernandez, *see* Fernandez Marino, Vicente.
Marital status, *see* Marriage.
Maritime Administration:
appropriations, require authorization, report, 17272
current regulations, index, 12231
decisions, Aug. 1961–Sept. 1964, 1101
gateway to your future, 2311, 17828
press releases, 3386

239–221—67—No. 863——26

Maritime Administration—Continued
report, 1965—
departmental edition, 12230
document edition, 11600
SP series, 1102–3, 4745–46, 6280, 9352–53, 10900–905, 16549
transfer—
hearings, 10246, 10346, 11809, 13040, 13212
message from the President, 5617
reports, 11634, 12973, 16158
Maritime Advisory Committee, maritime policy and program of United States, report, 17829
Maritime Consultative Organization, Intergovernmental, *see* Intergovernmental Maritime Consultative Organization.
Maritime industry, *see* Merchant marine—Shipping.
Maritime policy and program of United States, 17829
Maritime safety data for shipyards, 1085, 4709, 16520–25, 17806
Maritime safety digest (periodical), 3181–82
Maritime service, *see* Shipping.
Maritime Subsidy Board:
current regulations, index, 12231
decisions, Aug. 1961–Sept. 1964, 1101
establish within Federal Maritime Administration—
hearings, 15984
reports, 15873–874
Mark Twain National Wildlife Refuge, general information, 4414
Markers:
Great River Road, manual, 1448
sea dye, provides visibility for 20 hours, 13749
Marketing, *see* Markets and marketing.
Markets and marketing:
acreage marketing guides, 589, 1952, 5827–29
Africa—
market indicators, 15645
market profiles, 14323
agricultural marketing (periodical), 2648
agricultural marketing agreement act, amend, law, 431
agricultural marketing, vital link between farmer and consumer, 6753
agricultural markets in change, 11863
agricultural research, scientific careers, 3760
challenging look of the future (address), 9842
change, farm marketing's secret armor (talk), 4278
consumer in market, challenge for both (remarks), 6741
distribution cost analysis, 16819
economics research publications, reference list, 14534
Europe, indicators, 4010
export marketing for small firms, manual, 15323
facts for marketers, standard metropolitan statistical areas—
East North Central region, 6877
East South Central region, 6878
Middle Atlantic region, 6879
Mountain region, 8314
New England, 6880
Pacific region, 8315
South Atlantic region, 14246
West North Central region, 9941
West South Central region, 8316
Far East, market profiles, 15647
Federal-State news reports, directory, 13233
Federal-State news service, California rice stocks and movement report, 2725
foods, frequency of use of private labels, by distributors, 16733
foreign crops and markets (periodical), 2986
Markets and marketing—Continued
foreign market survey (series), 174–178
Georgetown public market, restore, hearing, 5688
insights on marketing innovations (excerpts from lectures), 4287
Latin American area profiles, 12775
low cost marketing aids for higher export profits, 4575
market for fireplace wood in urban area of Connecticut, 17700
market news by wireless, 15465
market promotion activity of Foreign Agricultural Service, review, report, 17266
marketing and regional development (paper), 14322
marketing and transportation, 3183
marketing bulletins, 6753, 14139
marketing information guide, annotated bibliography, 3184
marketing orders, fruit and vegetables, Federal and State legislation, evolution, etc., 17949
marketing research reports, 44–51, 1589–90, 3758–59, 6754–60, 8148, 9822, 11356–359, 12607–609, 14140–144, 15448–449, 16928–930
marketing research workers, employment outlook, 9207
markets for U.S. products—
East Africa, 12059
Iran, 7526
Ivory Coast, 7527
Kenya, 12059
Mexico, 12060
Tanzania, 12059
Uganda, 12059
measuring markets, guide to use of Federal and State statistical data, 9945
Near East and south Asia market profiles, 11519
Negro marketing information, guide, 16990
Panama, factors, 12784
proposals in agricultural policy and implications to marketing divisions of State Departments of Agriculture (statement), 4233
research and development programs, etc., include in marketing agreements, law, 431
small marketers aids, annual compilation, 1460
Thailand, market factors, 12785
United States official operations in foreign exchange and gold markets, 11304
Western Europe and Canada market profiles, 12782
wood pallet market in steel industry, 17702
world market, trade tips, 10019
your plentiful foods program, marketing aid, 1602
see also names or classes of commodities, etc., marketed.
Marking, Leif L., evaluation of p,p'-DDT as reference toxicant in bioassays, 14674
Markings:
obstructions in navigable waters, clarify responsibility, hearings, 8674
registration, aircraft and related products, Federal aviation regulations, changes, 5918, 14601
tree marking system improves, forest spraying operations, 8952
Markley, Marco, soil survey of Camden County, N.J., 11233
Markovits, Eugene S., relief, 8720
Marksmanship, *see* Shooting.
Marlboro County, S.C., soil survey report, 6618
Marquette Tercentenary Commission, *see* Father Marquette Tercentenary Commission.
Marquis, David A.:
artificial light sources differ in effect on birch seedling growth, 790

Marquis, David A.—Continued
controlling light in small clearcuttings, 801
Marrero, José:
effect of plastic mulch on weed growth and early height growth of Honduras pine, 16327
potting media for Honduras pine, 16328
survival and growth of bagged and bare-rooted Honduras pine, cadam, and primavera, 16326
Marriage:
age at first marriage, 1960 census of population, 11479
common-law, prohibit contracting in D.C., report, 15855
effect of disclaimers on allowance of marital deduction for estate tax purposes—
law, 17118
reports, 10140, 16129
laws, 5248, 16910
marital status—
Mar, 1965, population characteristics, 266
1960 census of population, 3939
population characteristics, census 1960, marital status and age at 1st marriage, 1706
records, where to write, 9635
registration in United States, 12475
vital statistics of U.S., 1445
see also Premarital examinations.
Marrow:
bone—
in oxidation of benezene, USSR study, 6147
transplantation, USSR study, 4608
Mars (planet):
chart, MEC–1, prototype, 6803
entry, typical conditions, estimate of chemical kinetics behind shock waves, 6451
entry vehicle damper, conceptual design, 15042
manned landing mission—
by means of high-thrust rockets, 4929
using electric propulsion, 4940
manned mission, return, atmosphere re-entry guidance scheme, 9535
Mariner IV, 1964–65, report from Mars, 9443
observations, optical properties of plants, influence of environmental factors, etc., 12375
optimization of double-conic interplanetary trajectories, 4932
planetary parking orbits, 4959
round-trip trajectories, minimum propellant consumption for vehicles, 4967
volcanic activity, 5001
Marseilles, Ill., railroad accident, 12076
Marsh funnels, *see* Funnels.
Marshall, Jean M., initiation of labor, proceedings of Interdisciplinary Conference on Initiation of Labor, etc., 9557
Marshall, L. B., handbook of Hospital Corps, Navy, 3032
Marshall Islands, fishes, families from Kraemeriidae through Antennariidae, 7937
Marshes, Serra das Varas (Arcoverde), Brazil, 9165
Marson, Frank M., snow, ice and frozen ground, 16957
Marti Prieto, Marcial A. (Alfredo):
relief, 16062
Martin, C. S., hydrodynamics of tire hydroplaning, 16610
Martin, E. Dale, boundary shock waves, 4941
Martin, William E., interception and retention of radioactive fallout by desert shrubs in Sedan fallout field, 5397
Martin, William M. jr., remarks, Dec. 8, 1965, 728
Martinek, Harold, election battery for Army image interpreters, 9915
Martinez, Alberto L., relief, 13104, 17083
Martinez, Mario G., relief, 11705
Martinez, Virgilio Ocosta-, *see* Ocosta-Martinez, Virgilio.
Martinez y Corpas, Miguel, relief, 15818
Martinson, R. K., experimental Sept. hunting season on teal, 10540
Martorana, S. V., State legislation relating to higher education, 17626
Marty, Robert:
blister-rust control in East, 10599
compound interest tables for long-term planning in forestry, 12595
mensurational characteristics of eastern white pine, 4468
reforestation and stand improvement projects, etc., on national forests, 9813
Martz, C. William, solving single-degree-of-freedom roll equation with time-dependent coefficients, 4917
Marx, Karl, attitude toward religion, 7601
Marxism, *see* Communism.
Mary, Cecilia, Sister, *see* Esquivel, Leonie.
Maryland:
aeroradioactivity survey and geology of area nearest D.C., 9917
census of business, selected services, area statistics, errata, 3877
census of manufactures, 1963, manufacturing plants, location by country, industry and employment size, 14258
climatological data, 2751
county business patterns, 1721, 5466
electric rate book, 711
fishery products, wholesale dealers, list, 768
Harford Soil Conservation District, contour strip-cropping (colored poster), 9679
labor laws affecting women, summary, 6700
landings, fish and shellfish, 3185, 13338
life tables, 18028
mineral industry, minerals yearbook chapter, 1131
postal map, 13933
precipitation data, hourly, 3045
southern, pre-commercial thinning not recommended for Virginia pine stands, 4443
transit compact, approval—
hearings, 15983
message from the President, 15783
reports, 15891, 16107
Marzetta, Louis A., peak ac-dc voltage comparator for use in standards laboratory, 5014
Mascarenhas de Moraes, Joao B., *see* Moraes, Joao B. Mascarenhas de.
Mascitti, Vincent R., charts of additive drag coefficient and mass flow ratio for inlets utilizing right circular cones at zero angle of attack, 11061
Masers:
bibliography, 15089
hydrogen maser frequency comparison with cesium beam standard, 7834
optical materials, nuclear radiation processing, 16971
traveling-wave, broadband, superconductive techniques, 7723
Maskelyne D, AIC 61D, lunar chart, 14181
Masks, *see* Gas Masks—Oxygen masks.
Maslowski, Edward A., pumping of mercury ion beams by liquid-nitrogen cooled condensers, 4965
Mason, Charles M., drop-weight testing of explosive liquids, 12254
Mason, Robert M., filter pack technique for classifying radioactive aerosols by particle size, mathematical considerations, 1382
Masonry, building construction materials and practices, Army technical manual, 128
Masons, stonemasons, employment outlook, 9216

Mass (physics):
measurement philosophy of pilot program for mass calibration, 11097
Mass feeding, *see* Emergency mass feeding.
Mass spectra, *see* Spectra.
Mass spectrograph, *see* Spectrographs.
Mass spectrometer-gas chromatographs, *see* Chromatographs.
Mass spectrometers, *see* Spectrometers.
Mass spectrometery, *see* Spectrometry.
Mass spectroscopy, *see* Spectroscopy.
Mass transfer:
interfacial, in pressurized tank containing liquid hydrogen, 6425
laminar boundary layer on cone in supersonic flow with uniform mass transfer, 9414
Mass transportation, *see* Transportation.
Massachusetts:
Berkshire Conservation District, beef cattle on improved pasture (colored poster), 9680
bus taxation proration compact, consent of Congress, reports, 8563, 14453, 17347
census of manufactures, 1963—
area statistics, 16994
manufacturing plants, location by country, industry, and employment, size, 14254
county business patterns, 1722, 14265
geology of selected quadrangles (series), 9006
labor laws affecting women, summary, 5245
landings—
by gear and subarea, 1965 summary, 17673
by ports, 1965 summary, 17672
fish and shellfish, 3186
life tables, 18029
mineral industry, minerals yearbook chapter, 1132, 17844
postal map, 1393
shoe manufacturing, wage chronology, 6268
women, legal status, 18145
Masse, Benjamin L., church and antipoverty program, 17801
Massengill, H. Edward, direct vs indirect assessment of simple knowledge structures, 8193
Masser, Charles C., radiant heating of seeded gas in coaxial-flow gaseous reactor, 4943
Massey, Iris H., validation of recruiter-salesman selection test, 8200
Masson, Paul, Vineyards, Presidential E award for excellence in exporting presentation (address), 327
Mastenbrook, H. J., vertical distribution of water vapor over Kwajalein Atoll, Marshall Islands, 12440
Master planning of NASA installations, report, 5634
Mastication, effect on tooth mobility, 9867
Masts and rigging:
rigging cargo gear, 14965
short wave antennas, USSR study, 4648
Masubuchi, Koichi, residual stresses in steel weldments, 18091
Mat de totem des Indiens Haida, Saxman, Etat d'Alaska, 15407
Matagorda Ship Channel, model study, Matagorda Bay, Tex., 7335
Materials:
aircraft, metallic materials and elements, flight vehicle structures, change, 615
atomic—
AEC program, hearings, 10092
development programs, summaries, 5407
nuclear fuels and materials development, 6861
building, American-made, use in embassy, etc., construction, GAO report, 8992
building construction and practices, Army technical manuals, 129, 1649–50
Communist China, translations, 3596
construction, used in distillation plants, study, 7515
Materials—Continued
developed since 1954, infrared spectra of plastics and resins, 16766
electronic machining and treatment, USSR articles, 9184
electronic treatment, USSR studies, 9145, 14918
engineering, Soviet conference, 16428
fiber-metal composite materials, 13834
fragmenting-tube energy-absorption, 6442
ignitibility and combustibility, effects of 100% oxygen, 3797
impact- and puncture-resistant material protects parts from damage, 15105
industries, East European, translations, 3604
non-ductile flaw-induced fracture, semi-atomistic model, 9439
nuclear, *see above*, atomic.
packaging, flexible, transparent, 15208
physically tested in variable-environment chamber, 7786
plastic, defense engineering, specifications and standards, 17614
plate, of lead-acid cell, anodic oxidation of basic sulfates of lead, 12429
polymeric, compatibility with fluorine and fluorine-oxygen mixtures, 12340
preservation, packaging and packing, Federal test method standard, 7424
project materiel, management, FAA handbook, 8872
reactor, review of recent developments, 3453
requirements for construction of federally aided highways, 4715
sewer works construction, requirements, 16534
Soviet conferences, 10735
Soviet construction and building materials industry, translations, 3613
space materials handbook, 6355
spacecraft, meteoroid environment, effects, 4834
standard, National Bureau of Standards, catalog and price list, quarterly insert sheets, 11090
structural—
ceramics investigation, 17883
high strength, metallurgical characteristics, 5076
synthetic, modified soldering iron speeds cutting, 11038
telephone system, construction contract, REA, 12497
testing, Rumanian inventions, 10805
versatile machine mills and saws light materials, 13799
see also Composite materials—Raw materials—Strategic materials—*also* names of materials.
Materials handling:
equipment—
Federal item identification guides for supply cataloging, supplements, 2932
industrial plant equipment handbook, 7255
potential savings through improvement in management, Marine Corps, GAO report, 14732
machinery and equipment, census of manufactures, 5448
special purpose equipment materials handling, organizational mechanic/repairman course, 5364
Materiel, *see* Military supplies.
Maternity, *see* Mothers.
Mateyka, David T., commercial egg-producing farms, New Jersey, 14532
Mathematical models, *see* Mathematics.
Mathematicians:
employment outlook, 9251
examination announcements, 14302
trainee, 298

Mathematics:
algorithms—
actions of operator in emergency situations, USSR study, 6130
solution of problems of integral linear programming with boolean variables, USSR study, 2224
all-Union conference on mathematical optimal programming, 1071
analytical conditions of positiveness of real functions, 6189
applied mathematics series, 7908
applied, research planning in Hungary, 2260
career opportunities, examination announcement, 5519
Communist Chinese abstracts, 2775
East European abstracts, 2872
economic-mathematical methods applied to economy, USSR study, 14855
equations, computer system symplifies programming, 13796
error in induced electric field modes under Stix coil resulting from assumption of orthogonality of natural plasma modes, 6438
functions with formulas, graphs, and tables, NBS handbook, list of errata, 7908
instruction and supervision, present practices, 8850
lively 3d R, 16237
logical model representing personnel flow in U.S. Army, considerations, relative to reduction of turbulence, 3839
low achiever in mathematics, 648
mathematical analog in metallurgy, USSR study, 1008
mathematical apparatus of biological cybernetics, USSR study, 10705
mathematics and mathematical physics, journal of research, National Bureau of Standards, 3101, 17938
mathematics and your career, 7675
mean square and elliptical errors methods used to determine accuracy of points in pulsed-sound range finder measurements, 910
methodological problems of mathematical modeling in natural science, USSR study, 12169
methods, application to economics, USSR studies, 6111
Michailov criterion for exponential polynomials, 10956
minimax control of large launch boosters, 15053
minimax studies, 15054
models—
for beam and plate vibration in bending modes using lumped parameters, 9518
for dynamic behavior of single tube condenser, 11073
in medicine, USSR study, 2199
of excitation, USSR study, 2232
simplified, production planning, formulation, USSR study, 2250
modern, and your child, 4311
multi-component exponential decay curves, fitting by digital computer, 3793
process of continuous culturing of microalgae, description, USSR study, 4624
related fields, mathematicians, statisticians, actuaries, employment outlook, 9251
root locus diagrams by digital computer, 15059
simplified thrust-vector technique for establishing lunar orbits, 6458
tables—
expansions in elliptic motion, 7952
sigma-t with intervals of 0.1 for temperature and salinity, 7441
spherical Hankel functions of imaginary argument, 1375
Mathematics—Continued
tables—continued
10–10 uranium unit cost components, 16970
teaching, logical aspects, USSR study, 9159
USSR abstracts, 3677
USSR study, 17770
Yefimov, Nikolay V., Lenin prize winner, 14881
see also Calculus—Equations—Integration (mathematics)—Optimal processes—Population (mathematics)—Programing (mathematics)—Scheduling (mathematics)—Sequential tests—Variables (mathematics).
Mathematics and Physics Department of Hungarian Academy of Science, report of departmental leadership, 9169
Mather, Bryant, investigation of expanding cements, 682
Mather, J. Warren, supply cooperatives, 14589
Mathews, J. Chesley, 19th century American men of letters (lecture), 2306
Mathias, Adrian J., critical path planning and scheduling applied to mining operations, 7709
Mathis, Billy, oil and gas lease, reinstate, 17089
Matrices (mathematics):
generation of random sample-covariance matrix, 4951
inverse of Vandermonde matrix with applications, 13848
iterative method for computing generalized inverse of matrix, 11078
linear analytic model for axisymmetric launch vehicles, 4808
memory matrix uses very little power, 1234
see also Mathematics.
Matrix-type magnetic separator, 4800
MATS, *see* Military Air Transport Service.
Mats:
landing mat, design curves for runways to be surfaced, 10441
T11 aluminum airplane landing—
engineering tests, revised design criteria, 7337
subgrade stabilization with portland cement, etc., 7333
Matsler, Anderson G., relief, 391
Mattamuskeet National Wildlife Refuge, birds, list, 16303
Matter:
electron interactions, 2359
equation of state, at supernuclear density, 1247
particulate, in ocean, characterization, 16767
Matteson, Halsey H., color-mixture functions with white desaturant, 13661
Mattheva, *see* Mollusks.
Matthews, Earle D., soil survey, Somerset County, Md., 15335
Matthews, H. E., electrical properties of stannic oxide ceramics, 4831
Matthews, Howard A., most delicious career, 10427
Mattresses, current industrial reports, 2817, 11465
Mattson, M. E., materials of construction in distillation plants, 7515
Matzick, Arthur, development of Bureau of Mines gas-combustion oil-shale retorting process, 10908
Matzke, Lourdes S. (Delotayo):
relief, 10116, 14356, 16027
Maui, principal electric facilities, map, 7381
Mauna Loa, phenology of Acacia koa, 10577
Mauritania:
gazetteer, official standard names, 16354
mineral industry, minerals yearbook chapter, 9362

Mauritius and Dependencies, background notes, 16850
Maxie, E. C., radiation technology in conjunction with postharvest procedures as means of extending shelf life of fruits and vegetables, 5413
Maxilla, maxillary sinus disease in aviators, 9862
May, Charles E., dependence of surface conductivity of sodium chloride on chemical nature of surface, 6427
May, Timothy C.:
asbestos, 17833
perlite, 15020
vermiculite, 1172, 17869
May, Timothy J., nomination, hearing, 7234
Maya, Jacobo A., relief, 13117, 15684
Mayko, R. W., soil survey report, Prineville area, Oreg., 6614
Mayo, Edward E., Newtonian aerodynamics for tangent ogive bodies of revolution, 7857
Mayo, Henry C., dynamic strength ratio as limiting parameter in shock design, 6555
Mayonnaise and related products, current industrial reports, 15588
Mayors, of each city with local airline service, CAB letter, 3578
MDTA (manpower development and training act), *see* Manpower.
Meal:
cottonseed meal, futures trading and open contracts, 3011
domestic corn meal bulletin, 2862
export corn meal bulletin, 2893
export corn meal port bulletin, 2894
export corn meal price bulletin, 2895
Meals, *see* Food.
Meanley, Brooke, selected bibliography on red-winged blackbird, life history, etc., 14677
Measure for progress, 13858
Measurements:
and interpretation of plasma properties to 100 kilobars of pressure, 9420
navigational, television capabilities for making, 7875
of shock velocity by use of microwave technique, 10957
philosophy of pilot program for mass calibration, 11097
range and range-rate, use in estimating orbital elements of lunar satellite, study of accuracy, 4911
selected facial, of children for oxygen-mask design, 15555
space survey, instruments and spacecraft, 13727
tests for measure of primary perceptual-motor performance, development, 4805
turbulence, heat-transfer, and boundary layer, in conical nozzle with controlled inlet velocity profile, 7822, 17911
see also Radio measurements—*also* subject of measurement.
Measures, *see* Metric system—Weights and measures.
Measuring instruments:
acceleration-compensated pressure transducer has fast measuring response, 13788
extensometer automatically measures elongation in elastomers, 12324
Federal item identification guides for supply cataloging, supplements, 2933
industrial plant equipment handbook, 10387
microminiaturization, application of thin-film technology, USSR translations, 7630
see also Electric measuring instruments.
Measuring markets, guide to use of Federal and State statistical data, 9945
Meat:
agricultural commodity grader, examination announcement, amdt., 15627
Canada's industry, 10551
Meat—Continued
exports, expansion, potentials and problems, hearings, 17599
foreign agriculture circulars, 2987
home canning, 6748
home cured, protecting from insects, 40
how to use USDA grades in buying, 16936
import prospects of European Economic Community, 8830
importation of meats that have transited countries infested with foot-and-month disease or rinderpest, opinion of Attorney General, 9191
industry, organization and competition, 15214, 16721–723, 17947–948
inspection procedures manual, 7244
inspection regulations of USDA, 1955, 16203
institutional purchase specifications, approved by USDA—
fresh pork, 7242
portion-cut products, 4232
livestock and meat situation, 3158
market news—
conference report, 1953
weekly summary and statistics, 3159
processing plants, chemical compounds authorized for use under USDA inspection programs, list, 16201
production, United States by months, 9738
products, census of manufactures, 1963, industry report, 6887
purveyors, hotel and restaurant, improved methods and facilities for custom service houses, 12608
Meat animals, *see* Livestock.
Meat-chopping machines, power-driven grinders, injuries to young employees, 9200
Meat Inspection Division, activities, 1965 summary, 4231
Mech, L. David, wolves of Isle Royale, 13880
Mechanical and physical hazards series, 4702, 14965
Mechanical engineering, Navy design manual, changes, 6707
Mechanical engineers, employment outlook, 9236
Mechanical equipment, *see* Machinery.
Mechanical fans, current industrial reports, 2818, 12715
Mechanical mobility:
environmental study one-pass program, 5347
measuring soil properties in vehicle mobility, evaluation of rectangular hyperbola for load deformation of soils, 4339
performance of soils under tire loads—
analysis of tests in sand, 10445
tests in clay through Nov. 1962, 8865
rice field characteristics, effect on ground mobility equipment, 5891
Mechanical power transmission, *see* Power transmission.
Mechanics, telemechanics, USSR studies, 6239
Mechanics (persons):
automobile—
apprenticeship and training standards, 14201
standards of apprenticeship, 11388
supervisor, examination announcement, 9993
automotive service specialists, training course guide, 634
aviation structural mechanic—
E 3 & 2, Navy training course, 6525
S 3 & 2, Navy training course, 11147
career information, your job as repairman or mechanic, 16542
certificates, knowledge, experience and skill requirements, Federal aviation regulations, 10462, 11913, 14604, 16262
construction mechanic 1 & C, Navy training course, 6529

Mechanics (persons)—Continued
employment outlook—
air conditioning and refrigeration mechanics, 10860
appliance servicemen, 9208
automatic bowling machine mechanics, 9215
automobile mechanics, 9210
automotive service advisors, 9210
diesel mechanics, 9229
elevator constructors, 9280
industrial machinery repairmen, 9250
optical laboratory mechanics, 9231
truck and bus mechanics, 9210
vending machine mechanics, 9287
machinery repairman 3 & 2, Navy training course, 17976
motor vehicle, training in fundamentals of engine tuneup, instructor's guide, 12453
organizational mechanic / repairman courses—
communications, teletypewriter set, 5362
electronics, radar set, 5363
special purpose equipment materials handling, 5364
tactical and support vehicles truck, wrecker, medium, 5-ton, 6x6, M 543, Army pamphlet, 5361
Mechanics (science):
analytical mechanics of shells, 1281
see also Celestial mechanics.
Mechanism isolates load weighing cell during lifting of load, 6397
Mechanism of Boule flotation on water and other liquids, 16375
Mechanism of electrode demineralization, 6067
Mechanization:
agriculture, scientific research, 10781
engineering and administrative work, USSR study, 983
Mechanized documentation, *see* Documentation.
Medals:
commemorative—
Alaskan purchase centennial—
law, 8469
report, 7180
American Numismatic Association Anniversary—
law, 8477
reports, 7182, 8572
Ellis Island designation as part of Statue of Liberty National Monument, report, 17254
land bank system, report, 11772
Navy Civil Engineer Corps 100th anniversary, reports, 17322, 17549
100th anniversary of Secret Service—
law, 11578
report, 11773
1,000th anniversary of founding of Poland, report, 11783
Scranton, Pa., 100th anniversary—
law, 8476
reports, 7181, 8571
Seabees 25th anniversary, reports, 17322, 17549
250th anniversary of founding of San Antonio, Tex.—
law, 7046
report, 8725
merchant marine, U.S., 16551
Mediators, Federal Mediation and Conciliation Service, employment opportunities, 10478
Medical and dental support, 4743
Medical care:
administration, research opportunities, 5118
age patterns, United States, 12488
aged, conditions of participation for home health agencies under health insurance program, 8023
Medical care—Continued
aged persons—
assistance under Kerr-Mills act, 5902
health insurance, extend deadline for enrollment—
law, 8460
message from the President, 8500
reports, 8605, 8728
podiatrists' services, payment under supplementary program, report, 17335
social security amendments of 1965—
law, print additional copies, report, 13005
Senate amendments, brief description, 1937
summary, 7209
State assistance under Social security act, 11905
assistance under social security act, amend title 19, report, 17282
facility projects approved for Federal aid under Hill-Burton program, register, 3041
Federal grants, etc., to improve, directory, 4539
guide for directors of child development centers, 4271
health insurance under social security, your medicare handbook, etc., 11229, 12512, 16832
hospital and medical benefits under medicare, 16830
improve, Federal financial aid for development, guide, 10658
in your community, 11193
Interior Department temporary employees, payment of medical expenses, report, 5775
medical assistance program, questions and answers, 17641
medical self-help training, if disaster strikes and there is no doctor, 5109
medical service—
in Mediterranean and minor theaters, U.S. Army, World War II, 4753
radiology technician, Air Force manual, 1617
medical support, Fleet Marine Force manual, 4743
medicare—
adapting group health insurance to, 10853
brief explanation, 2561, 9656
civil service annuitants, you are eligible, 5146
employee-benefit health plans, 1st adjustments, 11230
general information, 12511
health benefits beginning July 1, 8025
health benefits can help you, if you are about 65, 16831
impact on Veterans' Administration medical system, 11688
medicare and practicing physician (paper), 11194
pharmacist speaks to customers about medicare, 5144
reimbursement guidelines for hospitals, hearing, 11802
review for physicians, 6607
social security amendments of 1965—
hospital manual for billing, 12508
provider costs, reimbursement, 12507
things to know, 6608
what you need to know, 9659
military medical benefits act of 1966—
hearings, 8652, 13195
reports, 7105, 8612, 16091
motor vehicle accident injuries, 5130
needs for services revealed by operation Medicare Alert, hearing, 17563

Medical care—Continued
public assistance—
provided through vendor payments, tables, 7346
vendor payment by type of service, 5904, 14587, 17640
seamen, by Public Health Service, 5111
self-help training, promotional materials, list, 2532
services to rural population in United Arab Republic, organization, 7554
Soviet Antarctic expeditions, organization, USSR study, 6108
supplementary medical insurance, enrollment, 16829
Turkey, socialization of health services, 4607
USSR, regulations concerning medical services, armed forces, 960
veterans—
nursing home care programs, review, hearings, 11689
participation of VA in medical community planning, report, 10128
Philippine, extend—
hearings, 16195, 17397
law, 17111
reports, 15866, 15877, 16133
specialized medical resources, provide, hearing, 8787
Veterans Administration program, operations, 10270
Veterans Administration to improve quality of services provided veterans, hearing, 8787
veterans' views on care in VA hospitals, survey, 11690
see also Health insurance.
Medical certificates:
airmen, physical standards, Federal aviation regulations, 2006, 8880, 14605, 17647
reviewing and acting on, FPM manual supplement, 2945
Medical, Dental, Optometric and Podiatric Education, National Advisory Council on, *see* National Advisory Council on Medical, Dental, Optometric, and Podiatric Education.
Medical Department, Army:
radiology in World War II, 16969
technical services, U.S. Army in World War II, 4753
Medical Department, Navy:
ensign medical program, 13658
manual, 2314, 4750, 9354, 10906, 12232, 14989–990
Medical education, *see* Medicine.
Medical examinations, *see* Physicial examinations.
Medical examiners, aviation, directory, 9939
Medical facilities, *see* Hospitals.
Medical industry:
USSR—
enterprises, administrative changes anticipated, 6123
present conditions, 6141
Medical industry (USSR periodical):
tasks in light of decisions at Sept. plenum, CC CPSU, 6137
translations, 10749, 10757, 10760, 12186, 14889
Medical insurance, *see* Health Insurance.
Medical installations, *see* Veterans hospitals.
Medical instruments and apparatus:
Czechoslovak medical equipment, exhibition in Moscow, 4642
Federal item identification guides for supply cataloging, supplements, 2937
Soviet medical equipment, 4626
Medical Insurance Trust Fund, Federal Supplementary, *see* Board of Trustees of Federal Supplementary Medical Insurance Trust Fund.
Medical journals, index medicus, cumulated, 12394
Medical libraries, *see* Libraries.
Medical literature, translations, bibliography (periodical), 2705
Medical Nutrition Laboratory, *see* Army Medical Research and Nutrition Laboratory.
Medical officers, examination announcement, amdt., 292
Medical practice, *see* Medicine.
Medical radiology:
AEC licensing guide, preparations for medical use of radioisotopes, 6849
medical, Soviet research, 14931
personnel, training within framework of institutes for advanced training of physicians, USSR study, 9144
Medical record librarians:
employment outlook, 9252
training by Public Health Service, 7998
Medical records:
fees for abstracts furnished by PHS to private parties, GAO report, 14727
library science training by Public Health Service, 7998
Medical research, *see* Medicine.
Medical Research and Development Command, Army, scientific information activities, 11137
Medical schools:
grants for program improvement and scholarship, law, summary, 4534
scientific activity of practicing physicians in medical higher educational institutes, USSR study, 14793
training of physicians in higher institutions of RSFSR, USSR study, 7615
Veterans Administration to contract for scarce medical specialist services, report, 10126
Medical service, *see* Medical care.
Medical Service Corps, Army:
grade of Brigadier General, authorize—
law, 15776
report, 12992, 17493
Medical Specialist Corps, Army:
male persons, authorize Regular Army commissions—
law, 15776
reports, 12991, 17494
Medical specialists:
characteristics of patients, 9632
commissioning of male persons in Regular Army and Regular Air Force—
law, 15776
reports, 12991, 17494
Medical supplies:
administrative aspects of hospital central medical supply services, 15282
civil defense stockpile managed by PHS, achieving greater utilization, GAO report, 6001
excess equipment and supplies, greater utilization by VA, GAO report, 9003
Federal item identification guides for supply cataloging, supplements, 2937
hospital central services, 1424
Medical technicians, see X-ray technicians.
Medical technologists:
employment outlook, 9253
examination announcement, 6976
grants for training program improvement—
hearings, 10249, 17591
reports, 10225, 15841, 17535
Medical zoology, *see* Zoology.
Medicare, *see* Medical care.
Medicine:
Academy of Medical Sciences, USSR, 1965 elections, 6184
Academy of Sciences, Hungary Research Institute of Experimental Medicine, 10764
aeromedical assessment of human systolic- and diastolic-blood-pressure without direct arterial pressure, 15558

Medicine—Continued
aeromedical certification problems, cardiovascular responses to exercise following myocardial infarction, 16982
aeromedical reviews, 91–92, 5325–26, 6809, 14188–189
aerospace—
all-Union conference, USSR, 14945
bibliography, 1201–2, 4836–37, 6361, 7757, 10890, 10983, 12288–289, 15090, 16622
cumulative indexes, 10889, 10982
considerations in manrating space environment simulators, 15481
how you can help solve problems, 5316
problems, USSR studies, 17788
antileukemic preparations, trends in research, USSR study, 6243
arctic biology and medicine symposia, proceedings, 14185
associate training programs in medical and biological sciences, 5024
Atomic Energy Commission authorizing legislation, 1967, hearings, 8482
Atomic Energy Commission research and development in progress, 9924
aviation, cardiac patients, physical-conditioning program, 16983
aviation medical report AM series, 172, 6874, 8307–8, 9936–38, 11446–448, 12688, 14243, 15553–559, 16982–984
aviation medicine reports, annotated catalog, 15553
aviation medicine translations, annotated bibliography, 12688
bibliographies—
medical reviews, 7934
medical translations, 7935, 15219
biomedical institutions in USSR, directory, notice, 2464
biomedical research papers, 1964–65, National Institute of General Medical Sciences, 5032
chemistry and medicine, USSR study, 941
clinical—
cybernetics, USSR book, 2218
neurohumoral regulation, USSR study, 7570
Soviet studies, 12177
clinical (USSR periodical), translations, 10822, 12168, 12170, 12175, 14827
cybernetic methods, automatic diagnosing of diseases, Czechoslovak achievements, 4681
cybernetics, USSR studies, 884
education of health service personnel, clarify responsibility of VA—
hearing, 8787
reports, 5651, 17540
experimental and clinical, trace elements, USSR studies, 16396
film reference guide, 13963
future international meetings, world list, 3716
group practice facilities, financial assistance for constructing and equipping—
hearings, 8659
reports, 13188, 14388, 15897, 17202, 17241, 17336
summary of House bills, 8664, 13023
history, bibliography, 17955
Hungarian—
1945–65, summary report, 10762
scientific qualifications asked by professional committees, study, 9114
index medicus, 3050
cumulated, 12394
journals indexed, list, 9564
insecticides in medical practice, USSR studies, 16418
mathematical models, USSR study, 2199
medical news letter, Medicine and Surgery Bureau, 3187
medical organization and administration, USSR study, 16469
Medicine—Continued
medical practice, survey for rehabilitation counselor, 12554
medical problems of weightlessness, 8220
medical rehabilitation—
Public Health Service, new program, 15287
report of National Advisory Community Health Committee to Surgeon General, 18061
medical research—
aging, better management needed, report, 15929
uses of isotopes, 5427
Veterans Administration—
1965 annual report, 5209
1965 highlights, 6686
synopsis of 1965 program, 15413
medical subject headings, 3050
cumulated, 12394
medical symbolism in books of Renaissance and Baroque, 12395
medical training problems in Hungary, 10763
modern—
methodological problems, USSR study, 6182
technical advances, USSR study, 10733
Navy—
ensign medical program, 13658
preventive medicine manual, 14997, 17830
statistics, quarterly, 3540
notes for medical catalogers (periodical), 3277
philosophical problems, USSR studies, 9108
preventive medicine, residency program for Indians, 6574
problems of causation, USSR study, 4609
proteins in medicine and national economy, USSR study, 905
radioisotopes, 15550
selected literature search, 159
research, long-term, on aging of aviation personnel, GAO review, 8996
resources for medical research, reports, 5035, 11112, 13992
Rumania, medical sciences, 10739
School of Aerospace Medicine, technical reports, 93–100, 1621–27, 5327–36, 6810–16, 8202–20, 9863–77, 11378–384, 12628–646, 14190–196, 15489–495
senior citizens and medical quackery, 8946
simulation, USSR study, 16475
space—
biological laboratory in orbit, USSR study, 6233
problems—
immunology, USSR study, 4647
weightlessness, USSR study, 4680
Soviet and international conferences, papers, 946
Space Medicine Advisory Group, orbiting research laboratory, medical aspects, study, 15079
statistics, methodological problems, USSR study, 12152
symposium on medical aspects of stress in military climate, Apr. 22–24, 1964, 141
television in medical teaching and research, survey and bibliography, 4319
training medical personnel in RSFSR, 7551
treatment procedures, etc., in which VA Medicine and Surgery Dept. pioneered, 10272
use of insecticides in medical practice, USSR studies, 12188
USSR—
Academy of Medical Sciences, vestnik (periodical), 3682
cybernetic technology, 6197
1st medico-biological faculty, 2151
Ivanovo Medical Institute to publicize innovations, 16493
medical chemistry studies, 9073

Medicine—Continued
USSR—Continued
plans, 4620
study, 2266
technical progress, 2155
Veterans Administration medical training, statistics, 10271
Voskhod-2 space walk, medical conclusions, USSR study, 9076
X-ray shielding, guidance for design, 16962
see also Drugs—Veterinary medicine.
Medicine and Surgery Department, Veterans Administration:
defense of malpractice suits, law, 413
functions, clarify, hearing, 8787
opportunities for physicians, 16894
treatment procedures and techniques in which it pioneered, 10272
Medicine Creek, drainage basin, erosion and deposition, 17717
Medicine Lake National Wildlife Refuge, birds, list, 16306
Medicine men:
Shoshone tribe, Thermopolis, Wyo., colored poster with—
French text, 15410
Spanish text, 15409
Medicines, *see* Drugs—Veterinary medicine.
Mediterranean Sea:
contributions to hydrology of Africa and Mediterranean area (series), 16362
lights and fog signals, list, changes, 5056, 7958, 13897
notice to mariners, 3279
radio navigational aids, changes, 2484, 11146, 15238
radio weather aids, 2485, 12409
sailing directions, changes, 15234–235
tide tables, 12765
U.S. Army in World War II, technical medical services in Mediterranean and minor theaters, 4753
Meditsinskaya promyshlennost (periodical): tasks in light of decisions at Sept. plenum, CC CPSU, 6137
translation, 12186
Meehan, Eugene J., introductory science, 5842
Meehan, William R.:
effects of toxaphene on fishes and bottom fauna of Big Kitoi Creek, Afognak Island, Alaska, 11977
growth and survival of sockeye salmon introduced into Ruth Lake after removal of resident fish populations, 17678
Meeker, Leonard C., legality of U.S. participation in defense of Viet-Nam, 8059
Meetings, *see* Conferences, congresses, etc.
Meeves, Henry C.:
mineral industry of Wyoming, 1152
nonpegmatitic beryllium occurrences in Arizona, Colorado, New Mexico, Utah, and 4 adjacent States, 15029
reconnaissance of beryllium-bearing pegmatite deposits in 6 Western States, 13682
Meggers, Betty J., early formative period of coastal Ecuador, Valdivia and Machalilla phases, 6499
Mehren, George L.:
addresses—
Sept. 17, 1965, 37
Nov. 16, 1965, 3754
Nov. 28, 1965, 3748
Apr. 5, 1966, 9816
Apr. 21, 1966, 9842
Meier, Lewis, combined optimum control and estimation theory, 9401
Meintel, Alfred J., jr., manual control of high-altitude Apollo launch abort, 11060
Mekong Development Committee, establishment (remarks), 14052
Mellor, Malcolm:
explosions and snow, 1639
Mellor, Malcolm—Continued
light scattering and particle aggregation in snowstorms, 9889
optical measurement on snow, 116
strength studies of snow, 8237
Melons:
Mexican production, survey, 13354
spring, acreage marketing guides, 589
summer, acreage marketing guides, 5827
Melsheimer, Edwin S., drop structure, Cayuga Inlet, Cayuga Lake, N.Y., 5888
Melstrads, Ilona, research opportunities in community health services and medical care administration, 5118
Melting:
effect on forced convective heat transfer, 6831
electron-beam-melted tungsten compared with arc-melted, mechanical properties, etc., 4966
electron units, design, USSR study, 981
ice, thermal instability, as modified Stefan problem, analysis, 9888
metals, electron-beam, USSR studies, 6121
sea ice, heat, 16956
Melville, G. S., jr., effects of mixed ionizing radiations on Rhesus primates exposed under laboratory conditions, 12636
Member banks, *see* Federal reserve member banks.
Membranes:
acidic lipids, ionic, surface and properties, studies, 10671
biologic, solute and water transport across, 14774
inorganic ion-exchange, application to electrodialysis, 7512
ion exchange, transport properties, investigations, 4553, 17738
ion-selective—
for desalting water, development, 16376
polyelectrolyte complexes, 6064
microbial, transport of ions across, research, 4554
nonlinear solutions for deep membranes of revolution, 7835
phenomena, correlation of structure with functional properties, 10678
reverse osmosis—
modules, research and development, 4556
new polymer systems, research and development, 4558
structure and properties, 2114
technology, saline water desalination, bibliography, 6066
transport of electrolytes through membrane systems, 16372
ultrathin reverse osmosis, fabrication and evaluation, 9039
Memorandums, *see* names of departments, etc., issuing memorandums.
Memorial services:
Bonner, Herbert C., 17065
Brown, Clarence J., 7018
Johnston, Olin DeWitt T., 363
Roosevelt, Anna Eleanor, 7052
Thompson, Theo Ashton, 4033
Memorials, *see* National monuments and memorials—*also* names of persons to whom memorials are erected.
Memory:
biological and machine memory, USSR studies, 10747
center in brain, USSR study, 4640
immediate retrieval of verbal series as function of stimulus grouping, 3785, 9861
indirect paired associates learning, effectiveness, etc., 7972
molecular basis, USSR study, 947
simulating certain properties, USSR study, 2172

Memory devices:
addressing method using concise word codes as memory addresses, USSR study, 878
ferrite, laminated, 9393
lexical unit for electronic digital computer, USSR study, 885
see also Magnetic memory.
Memphis, Tenn.:
area wage survey, metropolitan area, 9322
principal electric facilities, map, 7380
Men:
and women workers in the economy, relative position, fact sheet, 6697
nonwhite, educational attainment, 1553
rural male residents' participation in outdoor recreation, 4455
Mena, Cesar A., relief, 8700
Mendeleyev congress, USSR, 934
Mendeleyev convention, USSR, 979
Mendes, Richard H. P., bibliography on community organizations, 1396
Mending, *see* Repairing.
Mendoza, Jose A. G., relief, 15820, 17443
Menhaden:
Atlantic Coast catch, age and size composition, etc., 5965
fishery, 1873–1964, 742
Menis, Oscar:
quantitative separations, 5012
standard reference materials, oxygen determination in ferrous materials, 16714
Menominee County, Wis.:
grants and other Federal aid, authorize—hearings, 11824
law, 17140
reports, 15894, 17498
Menominee Enterprises, Inc., Federal loan, authorize, hearings, 11824
Menopause, age, 1960–62 survey, United States, 18080
Men's clothing, *see* Clothing.
Mensurational characteristics of eastern white pine, 4468
Mental health:
Appalachia, problems and prospects in central highlands, report, 5028
career development program, conference proceedings, 15295
children, National Institute of Mental Health program, 7930
community general hospital as resource, annotated bibliography, 13986
community, individual adjustment or social planning, symposium, 16791
community mental health centers act, aspects (address), 16790
community services in northern Europe, 5025
facilities—
1964 list, 13974
publications, bibliography, 5108
mental health manpower, current statistical and activities reports, 1308, 11105, 12476
nurses, psychiatric-mental health trainee stipends, 11110
nursing—
career opportunity, Public Health Service, 9558
institutions offering trainee stipends for graduate and undergraduate education, 11113
occupational, emerging art, 12479
professional personnel employed in States, 11105
project grants—
completed, 6482
current, 6483
research grant awards, Public Health Service—
1964, funds, 11106
1965, funds, 15288
research grant program, 1964, descriptive data sourcebook, 11111
Mental health—Continued
social work, 1966–67 trainee stipends, 11107
State authorities, proceedings, 5114
State salary ranges of positions, 836, 10657
statistics, current reports, 5029, 6484
training grant awards, Public Health Service, 1965 funds, 2458
training grants program—
general information, 9561
statistical sourcebook, 2459
Mental hospitals, *see* Mental institutions.
Mental illness:
family therapy, annotated bibliography, 7929
treatment, past and present, 1309
Mental institutions:
community mental health services in northern Europe, 5025
hospital improvement projects, National Institute of Mental Health program, 11104
mental health facilities, 1964 list, 13974
mental hospitals, patients, Apr.–June 1963, statistics, 5122
provisional patient movement and administrative data, public institutions for mentally retarded, 1965, United States, 6484
psychologists employed, 1963, selected characteristics, 1308
State and county mental hospitals—
patients, 1964, 13982
provisional patient movement and administrative data, 5029
see also Hospitals.
Mental retardation:
abstracts (periodical), 3191
conference Hill-Burton and mental retardation construction authorities with Surgeon General, 1965, proceedings, 15283
facilities and community centers construction act, text, 13049
financial assistance programs of HEW, 7495
grants, awarded by Health, Education and Welfare Dept., lists, 2108, 17732
Health, Education, and Welfare Department, activities, 7496
mental retardation report (periodical), 3192
1965 legislation, 835
rare inborn errors of metabolism in children, 8374
recreation and mental retardation, 18071
research centers, construction, Public Health Service grants and awards, 6491
Mental telepathy, *see* Mind reading.
Mental tests, hypoxia and performance decrement, 15557
Mentally ill:
community mental health centers act, aspects (address), 16790
employment of former mental patients, 7 programs that work, 4711
family care treatment, bibliography, 12551
halfway house, sociocultural and clinical study of Rutland Corner House, transitional aftercare residence for female psychiatric patients, 1529
hospitalized mental patients and outcome of hospitalization, relationship between social and demographic characteristics, 2460
mental hospitals, Apr.–June 1963, statistics, 5122
mentally restored, manpower resource for Federal government, 6485
psychiatric guardianship problems, USSR study, 2167
psychiatric patients, admittance to general hospital, survey, 15303

Mentally ill—Continued
social readjustment of mental patients, studies, 16404
State and county mental hospitals, patients, 13982
your job and psychiatric patient, 5211
Mentally retarded:
bibliography of world literature on mental retardation, supp., 6493
care and rehabilitation, occupations, 14569
children—
military medical benefits act of 1966—
hearings, 13195
reports, 7105, 8612, 16091
research projects, list, 8375
social security benefits, 15329
community facilities construction grants, 12462
education and training, living units, etc., design of facilities, 16800
facilities for, hospital and medical facilities series, 16800
facilities, publications, bibliography, 5108
financial assistance for physical education, etc.—
hearing, 17386
report, 16161
health services, training for, 279
phenylketonuria, inherited metabolic disorder, 6941
public and private institutions, 1964 list, 13974
public institutions, provisional patient movement and administrative data, 6484
university-affiliated facilities, construction grants, 7992
university facilities, construction, Public Health Service grants and awards, 6491
vision and hearing screening classes, Detroit, Mich., 14283
Menus:
money-saving main dishes, 11352
planning guide for type A school lunches, 9829
Mensie, Calvin M., metabolism of pesticides, 16314
Merchandise, *see* Commercial products.
Merchandising:
automatic, bibliography, 16822
retail, bibliography, 12504
Merchant marine:
act of 1920, amend, hearing, 10335
act of 1936, amend—
hearings, 10256, 11796, 14431, 15984
law, 15759
reports, 10318, 14402, 15873–874
subcommittee report, 1935
act of 1936, and related acts, as amended through 89th Congress, 1st session, compilation, 7156
act of 1966—
amendments, report, 14457
hearings, 17575
proposed draft, 4216
activities behind Iron Curtain, report of U.S. congressional delegation, report, 12988
American—
critical times for (remarks), 702
facing up to our problems (remarks), 1102
healthy development (remarks), 17654
workhorse of our commerce and national defense (remarks), 10900
changes in ownership, etc., of vessels, monthly report, 3221
development, with unity of purpose vital (statement), 16549
expansion, proposals and recommendations (remarks), 1103
in national defense and trade, policy and program, 4003
leader in transportation system (remarks), 10905
maritime manpower shortage, hearings, 17389
Merchant marine—Continued
maritime matters—
liability during private operation of N.S. Savannah, agreement with—
Italy, 9729
Netherlands, 11261
NS Savannah, executive agreements waiving sovereign immunity and limitation of shipowner's liability, opinion of Attorney General, 14959
maritime policy and program of United States, report, Maritime Advisory Committee, 17829
maritime safety digest (periodicals)—
longshoring, 3181
shipyards, 3182
medals and decorations, 16551
modern and efficient (remarks), 9352
modern ships need (address), 4745
ocean-borne commerce, research and development (remarks), 358
serving needs of country (remarks), 10903
trends in changing maritime technology (remarks), 10904
U.S.-flag foreign trade fleet, impact of Government-generated cargo, 454
United States, how it serves the Nation, 10899
Western Hemisphere nations, assistance to maritime industries, 10898
see also Ships.
Merchant Marine and Fisheries Committee, House:
activities, 89th Congress, 1st session, 5701
calendar, 3122
committee prints, 5701, 7156, 10257
hearings, 1863, 5700, 7155, 8674, 10255–256, 11672, 13053, 14431–433, 15984, 17389–390
investigations and studies, expenses, report, 5647
reports, 488, 1818, 5675, 8613, 10146, 10159, 11621, 12904, 12911, 12988, 15803, 15873, 15931, 15935, 15939, 15941, 17178, 17272, 17293, 17313–314
Merchant Marine Council, proceedings, 3419
Merchant ships, *see* Ships.
Merchant vessels, *see* Ships.
Merchants, credit in agriculture, data from 1960 sample survey, 8923
see also Retail trade.
Mercurated phosphonium and arsonium salts, USSR, 16415
Mercury:
calibration of rotating piston deadweight gage by means of mercury column, 15025
cells, supply power to high-intensity flashing beacon, 1236
high concentrations in Guilmette Formation and Simonson Dolomite of Devonian age in Pequop Mountains and Wood Hills, Nev., 16355
ion beams, pumping by liquid-nitrogen-cooled condensers, 4965
mineral industry survey, quarterly, 3193
minerals yearbook chapter, 16562
nonwetting, condensation pressure drop in uniformly tapered tube in 1-g and zero-gravity environments, 4933, 15134
pumping, use of rotating magnetic poles, 17901
vapor—
all-metal superhigh vacuum unit, USSR study, 1060
in constant-diameter tube in 1-g and zero-gravity environments, pressure-drop investigation of nonwetting, condensing flow, errata, 15133
in heated-cathode discharge tube, flow of directed beam of high-speed electrons, investigation, 4990
wetting and nonwetting, condensing in uniformly tapered tubes, pressure drop investigation, 4974

Mercury Project, *see* Project Mercury (man-in-space program).
Mergers, *see* Business consolidations.
Meriden, Conn., commodity transportation survey, production area series, 8340
Merit systems:
State—
directory, 7494
extend to additional program financed by Federal funds, hearings, 17581
Merkle, Emery J., use of carbon dioxide to calibrate instruments for determination of carbon below 50 parts per million in metals, 7868
Merrill, Annabel L., nutritive values of home-prepared foods, 9781
Merritt, James H., pharmacology and toxicology of propellant fuels, boron hydrides, 14188
Merten, Ulrich:
reverse osmosis for water desalination, 17739
reverse osmosis membrane modules, 4556
Mesa Verde National Park, general information, 11129
Mescalero Reservation:
Apache Tribe, convey lands held in trust to—
law, 11554
reports, 5657, 10310
Mesnier, Glennon N., selected techniques in water resources, investigations, 12032
Mesometeorology, USSR, 2183
Mesosphere:
mesometeorology, USSR study, 2183
temperature pressure, density, and wind measurements, 13848
Mesothorium, isotope concentration in Black Sea, USSR study, 1068
Mesozoa, index-catalogue, 8134
Mesozoic era:
rock formation in Baboquivari Mountains, Papago Indian Reservation, Ariz., 2090
rocks of northern Alaska, micropaleontology, 12017
Messes:
ashore, Navy manual, change, 15247
open mess management handbook, AMC pamphlet, 14208
Metabolic diseases, phenylketonuria, inherited disorder associated with mental retardation, 6941
Metabolism:
amphetamine, altitude effect, 9876
effects of endotoxin, 5312
energy cost of cross-country travel in Arctic, 3783
lipid, and atherosclerosis, USSR study, 7567
pesticides, 16314
phospholipid, USSR study, 6125
rare inborn errors in children with mental retardation, 8374
responses to cold exposure at night, 77
Metal bars, *see* Bars (metal, etc.).
Metal coating, services, census of manufactures, 1963, industry statistics, 6908
Metal cutting:
hollow needle used to cut metal honeycomb structures, 11036
vibrator improves spark erosion cutting process, 13768
Metal finishing:
equipment, industrial plant handbook, 8803
equipment, market in United Kingdom, 177
Metal mines and mining:
Federal metal and nonmetallic mine safety act—
hearings, 8786
law, 15750
reports, 1840, 1843, 16072
services, census of mineral industries, 1963, industry statistics, 14261
Metal oxides:
dehydrated surfaces, adsorption of n-octadecylamine, etc., from nonaqueous surfaces, 6540
silicon transistors, protected from damage by wire device, 16639
Metal powders, *see* Powders.
Metal shapes, *see* Shapes (metal).
Metal sheeting, *see* Sheet metal.
Metal stamping, census of manufactures, 1963, industry statistics, 6908
Metal-working machinery, *see* Metalworking machinery.
Metalizing, *see* Metal coating.
Metallic soap, *see* Soap.
Metallic surfaces, *see* Surfaces.
Metallides and reactions among them, USSR, 7576
Metallography:
automatic metallographic analysis, use of overlay copy technique to provide high-contrast electron micrographs for, 17921
dispersion-strengthened alloys after failure in stress rupture, study, 13831
effect of alloying on grain refinement of electron-beam-melted tungsten, 13835
group meeting, technical papers, 147–149
Metallurgical engineers, employment outlook, 9236
Metallurgists, examination announcement, 14302
Metallurgy:
Atomic Energy Commission basic research, summaries, 5403
automatic control and mathematical analog in, USSR study, 1008
beryllium, physical, conference, 6851
career opportunities, examination announcement, 5519
Communist Chinese abstracts, 2774
East European abstracts, 2871
high energy-rate forging and extrusion, effect on structure, etc., 9378
ferrous, USSR industrial development, translations, 3663
metallurgical characteristics of high strength structural materials, 5076, 16769
Mines Bureau, Albany Metallurgy Research Center, quarterly progress reports, 1685, 6866, 11439
nonferrous USSR industrial development, translations, 3665
physical, titanium, 1283
powder, cold consolidation of metal-oxide blends for examination by electron microscopy, 12368
Soviet conferences, 4684, 10735
Soviet metallurgical institute criticized for poor management, 17766
Soviet studies, 6177
technology review, minerals yearbook chapters, 10932, 13699
USSR abstracts, 3676
USSR studies, 12131
see also names of metals.
Metals:
atomic absorption methods of water analysis, 17726
bimetals production, USSR studies, 7583
chemical reactions of carbides, nitrides, and diborides of titanium and zirconium and chemical bonding, 13836
Communist Chinese abstracts, 2774
compounds, extraction from pyrazoline, dithiocarbaminates, 9546
consumption and stocks at brass and wire mills, mineral industry survey, monthly, 2710
corrosion of metal samples rapidly measured, 7794
cosmic age, USSR study, 17756
determination of carbon below 50 parts per million, use of carbon dioxide to calibrate instruments, 7868
diffusion coatings, USSR study, 4644

Metals—Continued
duplex refractory metal thermionic emitters, diffusion and electron emission properties, 15044
East European abstracts, 2871
electric pulse machining, USSR study, 16477
electron-beam melting, USSR studies, 6121
fabricated products, census of manufactures, 1963—
industry report, 6909
manufacturing plants, location, 11456
fabricated structural products, census of manufactures, industry report, 3900
fiber-metal composite materials, 13834
friction characteristics of aluminum oxide in contact with various metals in vacuum, 15185
graphite-metal carbide composites, 12267
high-strength, electrical discharge machining, USSR studies, 14832
industries—
miscellaneous primary, census of manufactures, 1963, industry report, 6906
review, minerals yearbook chapter, 1170
technologic trends, minerals yearbook chapter, 1171
internal friction, USSR study, 16492
liquid, accelerated cavitation damage of steels and superalloys, 9539
liquid-metal flow, characteristics of heat transfer in round tube or flat duct with heat sources in fluid stream, 12353
liquid uranium, metal, and carbon systems, vaporization, 15076
lithium corrosion, USSR studies, 16426
metallic materials and elements for flight vehicle structures, change, 615
minerals yearbook, 1964—
departmental edition, 4783
document edition, 4046
minor, minerals yearbook chapter, 15018
miscellaneous fabricated products, commodity transportation survey, shipper series, 218
nonferrous metal mill and foundry products, census of manufactures, 1963, industry statistics, 6905
nonferrous, smelting and refining, census of manufactures, industry report, 5446
optical techniques for electron probe analysis, 2497
primary industries, census of manufactures, 1963, manufacturing plants, location, 11456
refractory, brazing method produces solid-solution bond, 2389
rolling, USSR technology, 14946
simple, nondestructive test identifies metals, 13741
stress cracking, eliminated with new brazing alloy, 2401
superconductivity, USSR studies, 7588
surfaces, photoelectric scanner makes detailed work function maps, 17904
USSR abstracts, 3676
see also Fracture of metals—*also* names of articles manufactured from metal—*also* names of metals.
Metalwork, enterprises, new instructions for calculating production cost, 1014
Metalworking machinery:
and equipment, census of manufactures, 1963, industry report, 6910
current industrial reports, 2818, 12719
equipment, Mexico, foreign market survey, 9942
Federal item identification guides for supply cataloging, supplements, 2933
industrial plant equipment handbook, 8797
production equipment directory, supplement, 8797
Spain, foreign market survey, 178
USSR industrial development, translations, 3664
Metastable atoms, *see* Atoms.
Metastable Leidenfrost states, 7824
Metcalf, Z. P., general catalogue of Homoptera, 9792, 12587, 16917
Meteor dust, *see* Cosmic dust.
Meteorites:
analytical techniques for hydrocarbons, 13712
fine meteoric bodies, peculiarities in motion, USSR study, 2251
Orgueil, surface conditions of parent body as indicated by mineral associations, 14016
terrestrial impact structures, bibliography, 16356
Meteoroid bumpers, *see* Bumpers.
Meteoroids, *see* Meteors.
Meteorological apparatus and instruments, *see* Ionosondes.
Meteorological observers, cooperative weather observer, 5226
Meteorological organizations, *see* World Meteorological Organization.
Meteorological satellites, *see* Satellites.
Meteorologists:
employment outlook, 9233
examination announcement, 14299
Meteorologiya i gidrologiya (periodical): translations, 2159, 7560, 9110
Meteorology:
aerometeorological research in Antarctica during IGY, USSR study, 982
American Meteorological Society abstracts, 13892
Army aviation applicable, technical manual, 11404
atmospheric transport and dispersion over southern California, 5229
automatic recording and transmission installation for meteorological data, East German study, 1039
Eastern Europe, current developments, translation, 13463
ESSA 1 television cloud photography, catalogue, 14580
high-level mesvortex, characteristics, USSR study, 14875
manned spacecraft, observations, USSR study, 16409
mesometeorology, USSR study, 2183
meteorological studies in European Soviet bloc countries, 2189
Nimbus high resolution infrared (HRIR) data, meteorological interpretation, 6328
probable maximum flood on Yukon River above Rampart, Alaska, 15420
publications, price list, 13951
radio meteorology, NBS monograph, 7917
radiosonde systems, interagency value engineering task force study, 5853
recent developments, USSR study, 993, 6201
records documentation, 1535, 4346, 5226, 5900, 8867, 11902, 14579–580
satellites—
APT users guide, 1994, 7341
interpretation and use of cloud data, USSR study, 2197
Nimbus 1 observations, 2372
1958–64, significant achievements, 7754
TIROS VII television cloud photography, catalogue, 1535, 8867
TIROS VIII television cloud photography, catalogue, 5900, 14579
TIROS IX television cloud photography, catalogue, 11902
USSR study, 6106
Soviet bloc countries, 1965 meeting, lectures, tours, 9071
Soviet literature, recent, 14870
Soviet news, 14871
Soviet studies, 2208
specialists, Moscow State University, training, 894

Meteorology—Continued
surface observations, manual, 8112
synoptic code (WBAN), standards and procedures for coding synoptic reports, manual, 5228
transparence of free atmosphere and certain meteorologic characteristics, relationship, USSR study, 958
USSR studies, 4671, 10789, 10797
see also Hydrometeorology.
Meteorology and hydrology (USSR periodical):
translations, 2159, 7560, 9110
Meteors:
ablation, boundary shock wave occurrence, 4941
low-density iron artificial meteoroid, photographic observations, 11055
meteor matter, USSR study, 914
meteoric matter in interplanetary space, 1285
meteoroid bumpers on spacecraft, spray velocity, resulting from high-velocity penetration of thin plates by disks, 16682
meteoroid environment and its effects on materials and equipment, 4834
meteoroid impact craters in ablative heat-shield materials, determination of temperature and material effects, 16689
meteoroid penetration, Pegasus satellite measurements, 4892
micrometeoroid detection, impact-light-flash at high velocities, 7738
peak pressures in thick targets generated by reduced density projectiles, 16615
simulating meteoroid environment, accelerating particles in shock-tube flows, 4934
theoretical relationships for meteoroid puncture experiments, 6431
Meters:
current, effect of vertical motion, 17731
postage, use in postal service, hearing, 5705
Roberts radio current, manual, 6981
see also names and types of meters, or substances, etc., measured.
Methanes:
adsorption rates on Pocahontas and Pittsburg seam coals, 9373
and coal dust mixtures, equivalences at lower quenching of limits of flames, 9381
portable methane detectors, effects of gases in mine atmospheres, 9361
potential of liquid-methane fuel for Mach 3 commercial supersonic transports, 12352
products burned in oxygen-enriched air, thermodynamic, transport, and flow properties, 17891
reaction of oxygen atoms, mass-spectrometric investigation, 7883
synthesis of (BB-dicyanovinyl)pyrroles and dipyrrylomethanes, USSR study, 957
Methanol, beta radiation-induced telomerization with ethylene, 8290
Methicillin, administration to monkeys, USSR study, 10753
Methodology:
factoring to fit off diagonals, 9914
health and medical statistics problems, USSR study, 12152
probabilistic, for safety analysis of nuclear power reactors, 12684
see also subjects.
Methods and instrumentation sources of gamma-radiation in biological experiment, USSR, 918
Methyl chloroform, *see* Trichloroethane.
Methylpyrroles, *see* Pyrroles.
Metric system:
practicability of adoption in U.S., Secretary of Commerce to conduct investigation—
hearings, 5707
report, 5664
Metrology, *see* Gages.
Metropolitan areas, *see* Cities and towns.
Metropolitan Water District of southern California:
nuclear power-desalting project in cooperation with AEC, authorize—
hearing, 17150
report, 17497
Metzman, Ira S., union wages and hours: local-transit operating employees, 9333
Mexico:
air transport services, agreement, 5167
broadcasting agreement, amend, protocol, 13075
report, 13089
Chamizal boundary, border highway, construct—
hearing, 13057
report, 14390
desalting agreement, 2582
foreign trade regulations, 15650
health information for travel in, 11184
Lower Rio Grande salinity problem, solution—
law, 15755
reports, 12961, 15876, 16102
market for U.S. products, international commerce, supplement, 12060
metalworking equipment, foreign market survey, 9942
mineral industry, minerals yearbook chapter, 7698
plant quarantine import requirements, 11341
screw-worm eradication, amend act of Feb. 28, 1947—
hearing, 16169
law, 15711
reports, 10172, 13133
Tijuana River flood control project, joint construction agreement, authorize—
hearings, 11656
law, 17132
reports, 5778, 12962, 15898
vegetable and melon production, survey, 13354
weather stations, cooperative meteorological program, agreement, 12530
Mexico, Gulf of:
bait, shrimp industry, 13344
coast pilot, supplement, 6985
current measurements with EMIT in Gulf Stream region, USSR study, 14800
lower basins, surface water quality, 16364
see also Gulf States.
Mexico-United States Interparliamentary Group:
5th conference, House delegation, report, 1859
6th conference, House delegation report, 11654
6th meeting, Senate delegation report, 10344
Meyer, Fred P.:
parasites of catfishes, 14652
protozoa, Ichthyophthirius multifiliis, 11968
Meyer, George, use of Euler's theorem on rotations for synthesis of attitude control systems, 16696
Meyer, Gerald, regional trends in water-well drilling in United States, 14750
Meyers, Robert J., comparison of actual experience under OASDI system with short-range cost estimates, 11226
Meyers, Trienah:
addresses, etc.—
Sept. 7, 1965, 1610
Oct. 26, 1965, 1611

Meyers, Trienah—Continued
addresses, etc.—continued
Oct. 30, 1965, 1585
Nov. 18, 1965, 3749
Feb. 16, 1966, 6741
MHB series, 5029, 6484
Mi Hi Cha, *see* Cha Mi Hi.
Mi Kyung Paeng, *see* Paeng, Mi Kyung.
Miami, Fla.:
area wage survey, metropolitan area, 7066
port, 13294
quarters for Coast Guard members, savings through use of FHA-owned houses, GAO report, 2085
Miami Indians:
funds appropriated to pay judgments, disposition—
law, 17142
reports, 477, 17503
Mica:
minerals yearbook chapter, 17839
phlogopite, disposal from national and supplemental stockpiles—
hearing, 10325
law, 10069
reports, 8584, 8752
selective flotation from Georgia pegmatites, 16575
see also Muscovite.
Mice:
acute hydrazine toxicity, biochemical studies, 12630
body temperature, effect of environmental temperature on endotoxin lethality, 5314
cold-stressed, challenged with viruses by different routes, mortality rate, 79
effect of atropine and ether on parenterally induced Coxsackie B infection in mice, 78
exposed to chronic 2x gravity field, neurologic adaptations, 93
spleen cells, chemical protection against radiation damage to immune response, 15494
super-high electromagnetic waves effect, USSR study, 13558
testicular function after exposure to increased partial pressure of oxygen, 12631
Michael, Bernard, working one's way through tomorrow, 13283
Michaels, A. S., polyelectrolyte complexes as reverse osmosis and ion-selective membranes, 6064
Michalski, Bernadette:
mineral industry of—
Albania, 1114
Bulgaria, 1117
Czechoslovakia, 1121
Poland, 2341
Michels, Charles J., performance of coaxial plasma guns, 12351
Michelson, Irving, comparative method for studying costs of air pollution, 15275
Michie, Lake, humid region, evaporation study, 16359
Michigan:
climatological data, 2751
county business patterns, 1723
electric rate book, 16275
employment problems of nonwhite youth, 12748
farm labor panel report, 2280
Grand Traverse Soil Conservation District, cropland once, now farm pond for recreation (colored poster), 9681
labor laws affecting women, summary, 8116
landings—
fish, annual summary, 16294
fishery products, 3194
life tables, 18030
manufacturing plants, location by county, industry, and employment size, 1963 census, 14256
Michigan—Continued
mineral industry, minerals yearbook chapter, 2334
precipitation data, hourly, 3045
upper—
national forests, Scleroderris canker, 13370
temperature and early spring conditions, influence on maple and yellow birch germination, 5983
Michigan Farm Labor Panel, report, 2280
Michigan, Lake:
pollution of interstate waters, conferences—
proceedings, 7493
technical session, 11961–962
small craft, gale and whole gale warning facilities chart, 15424
Michigan National Bank, branch offices, establishment and operation, hearing, 14475
Micklewright, James T., portable hog feeder from red oak lumber, 10591
Micro- and macrocrack formation, 2551
Microanalysis, *see* Electron probe microanalysis.
Microanalyzers, *see* Electron probe microanalyzer.
Microbes, *see* Micro-organisms.
Microbiology:
genetics conference, Hungary, 6172
Hungarian Microbiological Society—
general assembly, 16490
proceedings of congress, 1059
program, 2225
methods of insect pest control, USSR study, 17754
radioisotopic labeling of poliovirus and vaccinia virus, 9871
soil, current problems, 7900
Microchemical Analysis Section, National Bureau of Standards, summary of activities, 16719
Microelectric circuits, *see* Circuits.
Microelectronics, *see* Electronics.
Microfilms, National Archives publications, list, 7907
Microforms, masters, national register, 2307, 9345
Microgeometry, surface, environmental data collection manual, 1990
Microgrammars, Placebo V, materials, 5015
Micrographs, *see* Electron micrographs.
Microlepidoptera:
neotropical—
new genus Pseudomeritastis and its species, 6495
review of genus Falculina, description, 5044
Micromechanics, composite materials, stresses and failure mechanisms induced by inclusions, 15073
Microminiaturization, *see* Miniaturization.
Micronesia, marine amphipoda of atolls, 2466
Micro-organisms:
detected by enzyme-catalyzed reaction, 7774
determination and microbial survival of cryogenic whole air sampling conditions, 2369
ion transport across microbial membranes, research, 4554
microbial flora surviving irradiation, pasteurization of seafoods, effects observed, 5411
microbial polymers, preliminary cost estimate, 9787
Micropaleontology, *see* Paleontology.
Microphones:
multiplex system provides multiple outlets from single source, 13744
phonocardiograph, is rugged and moistureproof, 13750
Micropropulsion, *see* Propulsion.
Micropulsations, Pc 1, properties and interpretations, 15211

Microscopes, *see* Electron microscopes.
Microscopy, titrimetric microdetermination of sulfur in organic phosphorus and arsenic compounds using nitchromazo, USSR study, 13539
see also Electron microscopy.
Microvoids in filament-wound composites, origin and removal, 2494
Microwave filters, composite filter steepens rejection slopes, 15123
Microwaves:
effect on living organisms and biological structures, USSR study, 1020
impedance, measurements and standards, errata, 5008
liquid-hydrogen density measurements using open-ended microwave cavity, 17930
long-range tropospheric propagation, USSR study, 10723
open-ended circular cylindrical cavities, analysis, 12369
phase-front distortion in simulated earth-to-space transmissions, 17942
technique, use for continuous measurement of shock velocity, 10957
technology of tunnel devices for millimeter-wave applications, 10963
Microwire, *see* Electric wire and wiring.
Middle-aged and older people in American society, 1572
Middle Atlantic States, *see* Atlantic States.
Middle East, *see* East (Middle East).
Middle River Canal:
flood control improvement, engineer report—
departmental edition, 13292
document edition, 13067
Middlesex County, N.J., commodity transportation survey, production area series, 8342
Middleton, David B., removal of angular momentum from spacecraft momentum-exchange system by use of gravity-gradient moments, 7844
Middleton, Helen K., hydraulic research in United States, 17939
Middleton, Wilbur D., calculating near-field sonic-boom pressure signatures, 1258
Middletown, Ohio, commodity transportation, production area series, 9956
Mideast (U.S.), *see* Atlantic States.
Midland, Tex., area wage survey, 16532
Midwest (U.S.):
fresh fruit and vegetable unloads in midwestern cities by commodities, States, etc., 5834
water development, 7236
Midwestern Instruments, Inc., pricing of recorders purchased by Air Force Dept., GAO report, 6020
Midwestern States, *see* Midwest (U.S.).
Midwives, practice of nurse-midwifery in United States, 12732
Mie scattering, *see* Scattering.
Migrant labor:
agricultural worker and his family under economic opportunity act, 7280
July 1–Oct. 31, 1965 projects, 7281
farm migrant children, school transfer record system, 655
laws, amend, hearings, 11822
Michigan farm labor panel report, 2280
migrant worker programs in rural community action, general information, 14528
problem in U.S., report, 14468
study, authorization, report, 4207
Migration, population-migration report (series), 631, 7295
Migratory-bird-hunting stamps, increase fees, hearings, 13053
Migratory birds, *see* Game and game birds.
Migratory workers, *see* Migrant labor.
Miguel Franca, Jorge I., relief, 17442
Miklius, W.:
comparison of for-hire motor carriers operating under agricultural exemption with regulated motor carriers, 16929
do lettuce buyers exert oligopsony power? 4281
Milan, Frederick A., cold water tests of USAF anti-exposure suits, 76
Milan, Italy, U.S. trade center, 14783
Military Academy Preparatory School, Fort Belvoir, catalogue, 3828
Military Academy, West Point:
candidates for appointment, selection, amend U.S. code—
law, 17137
reports, 12937, 16164
catalogue, 1966–67, 17831
civilian instructors, provide public quarters and utilities without charge, report, 12966
general information, 4752
instruction, persons from countries friendly to U.S., permit, report, 17508
official register, 9355
selection of cadets, research, 15525
Military aid:
agreement with—
Belgium, 16862
Japan, 15350
Luxembourg, 6654
Paraguay, 15359
foreign assistance act of 1966—
analysis of draft bill, 13036
law, 17105
reports, 15850, 15862, 17228
foreign assistance appropriations, 1966, report, 545
foreign assistance authorization, 1966, supplemental, hearings, 5810
print additional copies, reports, 7193, 10194, 15882
military assistance and sales act of 1966—
analysis of bill, 7142
hearings, 7135, 8667, 10241, 11806, 14419
report, 13144
military assistance appropriations, 1967—
hearings, 13014, 17568
reports, 15915, 16159, 17263
nonmilitary judgments in direction of military assistance program, importance, 7138
U.S. military assistance programs in Vietnam, investigation, report, 15950
Military Air Transport Service:
military airlift, hearings, 10230
redesignated Military Airlift Command, effective Jan. 1, 1966, special subcommittee report, 10231
Military aircraft, *see* Aircraft.
Military airfields, *see* Airports.
Military Airlift Command:
MAC flyer (periodical), 3172
military airlift, special subcommittee report, 10231
Military airlift, hearings, 10230
Military Appeals Court, *see* Court of Military Appeals.
Military art and science:
air support, Fleet Marine Force manual, 10894
close air support in Vietnam—
hearing, 4121
report of Special Subcommittee on Tactical Air Support, 4122
command post exercises, computer use, 6536
defense logistics management training catalog, change, 8796
defense traffic management handbook, 607
evasion and escape, Army field manual, 1640

239-221—67—No. 863——27

Military art and science—Continued
logistics—
Air Force manual, 6791
Army regulations, 15504
management controls, Army field manual, 1641
selective management of secondary items, Army field manual, 3822
support for military services by DSA, 17610
Logistics Research Conference, professional papers, procurement practices, 17613
Military operations of Civil War, guide-index to official records of Union and Confederate Armies, 1861–65, introduction, 14313
mission employment tactics, special air warfare tactics, 6785
organizational, technical and logistical data, staff officers' field manual, 3823
pathfinder operations, Army field manual, 8254
revolution in military affairs and spiritual strength of troops, USSR study, 1038
Soviet translations, 3527
supply operations manual, defense depot transportation and supply procedures, 608
tactical decision making—
behavior, 8194
functional requirements of training equipment, 7970
39th Army in Khingan-Mukden operation, 1945, USSR study, 1065
troop instruction on combat readiness, USSR study, 1024
USSR, party spirit of military-historical science, 2157
see also Chemical warfare.
Military assistance, *see* Military aid.
Military bases:
closures and reductions, hearings, 8656
in Philippines—
banking facilities at Subic Bay, agreement, 11264
relinquishment of certain areas for other lands, agreement, 8071
Military communications, defense communications system engineering-installation standards manual, 7251
Military construction, *see* Installations (military).
Military depots, defense depot transportation and supply procedures, manual, 608
Military dictionary, German-English, English-German, 1658
Army field training, administrative instructions, 7925, 11102
design of operational equipment, consideration of training functions, handbook, 5067
see also Officer candidate schools.
Military entomology operational handbook, 11333
Military equipment, *see* Military supplies.
Military establishments, *see* Armed Forces.
Military facilities, design criteria in areas subject to typhoons and hurricanes, Army technical manual, 12661
Military fields, United States, dates of latest editions, instrument approach procedure charts, 3196
Military funerals, State, official and special, Army pamphlet, 6835
Military handbook, 615
Military history:
Marine Corps—
historical bibliographies series, 9349, 10893
historical reference pamphlets, 10895–897
USSR, party spirit of military-historical science, 2157
Military History, Office of Chief of, Army, publications, list, 9357
Military hospitals:
decade of change in U.S. hospitals, 1953–63, study comparing utilization, staffing and cost trends in civilian and CONUS Army hospitals, 140
design of Army medical facilities, Army technical manual, 8264, 9907, 14224
Military housing, *see* Housing.
Military index:
Defense Dept., specifications and standards, 14519
supplement, 3055
Military information:
command information processing systems, human factors research, 16967
Eastern Europe, translations, 3197
Military installations, *see* Installations (military).
Military law:
military justice handbook—
guide for summary court-martial trial procedure, 5350
trial guide for special court-martial president, 5351
review, Army Dept. pamphlet, 3198
volumes 1–10, selected reprint, 3826
United States Code, amend titles 10 and 37, codifying recent laws, etc., report, 17551
Military missions:
agreement with Costa Rica, 15351
mission employment tactics, special air warfare tactics, 6785
Military operations, *see* Military art and science.
Military pay, *see* Pay, allowances, etc.
Military personnel, *see* Armed Forces.
Military police, operations within Army divisions and separate brigades, 16959
Military posts, repairs and utilities, work performance standards for engineering, Army pamphlet, 12655
Military posture, hearings, 10232
Military psychology, *see* Psychology.
Military publications:
decision logic table technique, Air Force pamphlet, 71
index of AMC publications and blank forms, 5340
Military research:
Army research and development, newsmagazine, 2691
design of experiments, conference proceedings, 9886
Military review (periodical), 3199
Military Sea Transportation Service:
sealift magazine, 3495
transportation of privately owned vehicles on foreign-flag vessels, GAO report, 9004
Military service:
marginal man, review, 8255
personnel, before you report for active duty, 3808
symposium on medical aspects of stress in military climate, 141
universal military training and service act—
amend—
hearing, 5683
report, 5673
as amended, with analysis, 5682
see also Armed Forces.
Military standards, 3200, 4257, 7263–66, 8813–14, 10394, 11849–853
Military supplies:
Air Force procurement instruction, revisions, 2659
airdrop of supplies and equipment—
Army technical manual, 9909
assembly line, rigging, technical manual, 8266
general, technical manual, change, 15517
rigging M28 and M29, technical manual, 15518

Military supplies—Continued
airdrop of supplies and equipment—con.
rigging military aluminum bridges (floating and fixed), Army technical manual, 9910
rigging 105–MM howitzer, 8267
using CV–2B Caribou airplane and combat-expendable platforms, 6845
Armed services procurement regulations, 2688, 10382
Army procurement procedures, changes, 114, 11392
cataloging system, standardization, etc., semiannual reports, 1846, 5684
commander's guide to ready men and ready materiel, 11403
contract pricing, Armed services procurement regulation manual, 7252
contractors guide, 5345
Defense Dept.—
specifications and standards, index, 14519
supplement, 3055
standardization documents—
classification listing, 2965
supply classification listing, 14517
defense industrial plant equipment center operations, DSA manual, 4248
defense procurement circular, 2845
defense supply procurement regulation, revisions, 2846, 11846
design of operational equipment, consideration of training functions, handbook, 5067
disposal manual, changes, 611, 5648
equipment, procurement by Marine Corps, GAO report, 10619
guide for line officers performing supply duties, 11149
input and output codes, supply cataloging manual, 4244
interservice action needed when management policies and practices differ for similar supply items, Defense Dept., GAO report, 14726
item identification, cataloging manual, 603
loan to Boy Scouts for 1967 world jamboree and conference—
law, 11588
reports, 10147, 11771
military supplies and equipment, preservation packaging and packing, DSA manual, 7258
MILSTRIP, military standard requisitioning and issue procedures—
changes, 4258, 7267, 10395, 14520
supplement, 11854
nondestructive testing series—
electromagnetism, 7269
radiography, 16213
operating forms, cataloging manual, 605
packing and carloading, instructor's guide, Army Dept. pamphlet, 6842
preservation packaging, etc.—
DSA manual, change, 609
instructor's guide, DSA manual, 610
procurement—
contract administration procedures, 5341
DCSC estimates catalog, 10385
legal service, Army pamphlets, 5367, 9899, 11402, 12658, 15513
tables of materials digested, etc., 12657
small business subcontracting and set-aside programs, hearings, 7165
provisioning techniques, Army technical manual, 133
standardization policies, procedures, and instructions, manual, 3533, 13245
supply operations, guide for developing engineered standards, SMC pamphlet, 12659
Military supplies—Continued
supply operations manual—
defense depot transportation and supply procedures, 608
distribution system procedures, 4247
utilization manual, 4246, 10391, 13249
see also Handling equipment.
Military terms, U.S., dictionary for joint usage, 16389
Milk:
acidophilous, used in treatment of dysentery, USSR study, 17751
and food, reference list of publications, 13987
and milk products, fabrication of single service containers and closures, sanitation standards guide, 15278
black bear milk, composition, 6799
bulk cooling tanks on farms supplying Federal milk order markets, 14509
distributors' sales and costs, 3201
evaporated, condensed, and dry, 2891
Federal orders—
major provisions, summary, 8792
market sources by State and county, 14511
market statistics—
1965 annual summary, 9841
summary monthly, 2941
marketing, summaries, 593, 4237
fluid—
industry wage survey, 4719
milk and cream report, 2981
packaged, sale in Federal milk order markets by size and type of containers, 14507
sales, effect of different levels of promotional expenditures, 4280
grade A pasteurized, safe and reliable through cooperation of industry, States, U.S. Public Health Service, 13964
interstate shippers, certification under State-PHS cooperative program, 5113
nonfat milk solids, effect on storage properties of potato flakelets, 12583
pasteurization, equipment testing procedures, 15298
Pittsburgh market, coordinating fluid milk supplies, 6760
procurement by Defense Dept., price adjustments, amend U.S. Code, hearings, 17361
production—
disposition and income, 9742
monthly reports, 1507, 2594, 3202, 6660, 9740–41, 11283, 14036
statistical summary, 6661
special programs, administration by Agriculture Dept., review, hearing, 7106
special school program for children, extend—
hearings, 13191, 17375
reports, 12985, 13146, 15865, 15890
special school program for children, make permanent, etc., hearings, 11786, 13010
see also Goats.
Milk tanks, *see* Tanks.
Milking Shorthorn cattle, *see* Cattle.
Mill profiler machines soft materials accurately, 11044
Miller, Albert B., pilot re-entry guidance and control, 1189
Miller, Ann R., Interagency Committee on Occupational Classification, Budget Bureau, collection and classification procedures and plans for future work, progress report, 14245
Miller, Charles G., III, calibration in Langley hotshot tunnel, 6446
Miller, Edward F., design equations of swept frequency spectrum analyzers for inflight vibration analysis, 15196
Miller, G. A., utilization of ground water in Santa Maria Valley area, Calif., 9024

Miller, G. Kimball, jr.:
manually controlled translation and hover maneuvers over lunar surface, 17919
visual simulation of lunar orbit establishment using simplified guidance technique, 15154
Miller, Gordon H., fluidization processes under lunar conditions, 17881
Miller, Irvin M., oxidation of graphite in high-temperature supersonic and hypersonic environments, 12343
Miller, John F., monthly number of days with precipitation, etc., 14077
Miller, Marshall E., lectures, excerpts, 4287
Miller, Max J., blade element performance of axial-flow pump rotor with blade tip diffusion factor of 0.66, 15191
Miller, P. D., research on corrosion mechanisms in saline water, using reversible and irreversible electrodes, 12052
Miller, Paul A., nomination, hearing, 17593
Miller, Perry B.:
effects of moderate physical exercise during 4 weeks of bed rest on circulatory functions in man, 8204
medical problems of weightlessness, 8220
Miller, Richard L., algal bioregenerative systems, 8211
Miller, Robert E.:
development of officer selection and classification tests, 15487
predicting 1st year achievement of Air Force Academy cadets, class of 1966, 8198
Miller, Robert L., and wife, relief, 12875
Miller, William C.:
boron, 15000
bromine, 13671
iodine, 13684
Miller, William E.:
effects of shunt capacitance on transient effects caused by electron irradiation of polyethylene terephthalate insulated ribbon wire, 7849
European pine shoot moth, 7453
Miller, William M., chronology of Marine Corps, 1775–1934, 10895
Millers Ferry Lock, Alabama River, Ala., filling and emptying systems, hydraulic model investigation, 10444
Millican, Richard D.:
advertising, volume and expenditures, 1457
national mailing-list houses, 18093
Millimeter waves, *see* Microwaves.
Milling (metallurgy):
electrochemical, removes burrs and solder from tubing ends, 13793
Milling machines, machine mills and saws light materials, 13799
Mills, *see* Floor covering mills—Flour mills—Grain mills—Planing mills—Sawmills—Steel mills—Textile mills—Thread mills—Weaving mills—Yarn mills.
Millwork, Federal item identification guides for supply cataloging, supplements, 2935
Millwrights, employment outlook, 9250
MILSTRIP:
military standard requisitioning and issue procedures, 4258, 7267, 10395, 14520
routing identifier codes, 11854
Milwaukee, Wis.:
area wage survey, metropolitan area, 12213
commodity transportation survey, production area series, 9957
principal electric facilities, map, 7375
Mima, isolation, from experimental spaceflight diet, 11382
Mimura, Takuo, thermal radiation absorptance and vacuum outgassing of metallic and coated surfaces, 4968
Minas Gerais, Brazil, geology and mineral resources (series), 4518, 12018
Mind reading, mental telepathy, USSR studies, 10702
see also Thought-transference.
Mindanao, northern, sailing directions, 9580
Mine accidents:
coal mines, injuries, monthly report, 2753
Federal coal mine safety act amendments—
law, 7040
report, 5784
Mine drainage, coal mine drainage in Appalachia, 1965, related to stream quality, 7481
Mine explosions, explosion energy and charge design, USSR study, 10829
see also Coal dust.
Mine filling, *see* Hydraulic mine filling.
Mine fires, fire hazard of urethane foam, 12261
Mine gases, effects on portable methane detectors in mine atmospheres, 9361
Mine pillars, creep in model pillars, 4790
Mine-roof bolts, *see* Bolts and nuts.
Mine safety, *see* Safety of life.
Mine ventilation:
effects of bleeder entries during atmospheric pressure changes, 10924
stoppings for ventilating coal mines, 4793
underground bituminous coal mines, performance characteristics of jute line brattice, 6317
Mine water, *see* Water.
Mineral fuels, *see* Fuel.
Mineral industries, *see* Minerals.
Mineral lands:
common varieties act—
amendments—
hearing, 13215
reports, 16138
interpretation and administration, hearings, 1941
conveyance of mineral interests of U.S. located near Orangebury, S.C., to Allen E. Dominick, 17415
leasing act of 1920, amend—
hearing, 13219
report, 13167
occupants of unpatented mining claims, relief law, questions and answers, 10886
oil and gas lease—
New Mexico, reinstate, 17089
Wyoming, reinstate, report, 17491
Vega Dam and Reservoir, reconvey mineral rights to former owners—
law, 15752
report, 16120
Mineralogy, *see* Meteorites—Minerals.
Minerals:
and primary products, Federal item identification guides for supply cataloging, supplements, 2938
by-products from saline waters, 17737
census publications, price list, 5101
chemical and fertilizer mineral mining, census of mineral industries, 1963, industry statistics, 11459
contributions to geochemical prospecting (series), 13396, 16355
deposits—
exploration, using probability models as basis for decisions, 12245
Powell River area, Claiborne, and Union Counties, Tenn., 13400
reserves, computing, 9359
exploration assistance, 13406
facts and problems, 1105
geology and mineral deposits of Mosheim and Johnson anticlines, Greene County, Tenn., 4512
industries—
Alabama, water used in 1962, 15033
area reports, annual, 2686
census, 1963—
EC series, 223, 1707
final industry reports, announcement and order form, 3873
industry statistics, 6916, 9951, 11457–459, 12702, 14261–262, 15575–576

Minerals—Continued
industries—continued
census, 1963—continued
preliminary reports, 2740
publication program, 1708–9
economic analysis (remarks), 6311
employment and injuries, minerals yearbook chapter, 2318
enterprise statistics, 1963, preliminary reports, 11475
index numbers, 1111
Nevada, water requirements and uses, 12234
New Mexico, water requirements and uses, 2319
review, minerals yearbook chapters, 1170, 2357
technologic trends, minerals yearbook chapter, 1171
theoretical confirmation and applications of probability theory, 12241
water use, 6290
industry, minerals yearbook chapter—
Afghanistan, 4759
Africa, regional review, 9367
Alaska, 2320
Albania, 1114, 15014
Algeria, 4760
Angola, Mozambique and Portuguese Guinea, 6294
Argentina, 10911
Arizona, 2321
Arkansas, 1115
Australia, 6295
Austria, 7687
Bahrain, 1116, 13688
Basutoland, Bechuanaland, and Swaziland, 4761
Belgium, 10912
Bolivia, 4762
Brazil, 10913
British Guiana, 6296
British Honduras, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama, 7688
British Solomon Islands, Christmas Island, Fiji Islands, Makatea, Nauru and Ocean Islands, New Caledonia, New Hebrides, and Papua and New Guinea, 6297
Bulgaria, 1117
Burma, 4763
Burundi, Cameroon, Central African Republic, Chad, Congo (Brazzaville), Dahomey, French Somaliland, Gambia, Mali, Mauritania, Niger, Ruwanda, Somali Republic, Togo, and Upper Volta, 9362
California, 2322
Canada, 7689
Ceylon, 1118
Chile, 7690
China, mainland, 2332
Colombia, 6298
Colorado, 1119
Congo (Léopoldville), 4776
Connecticut, 17840
Cyprus, 1120
Czechoslovakia, 1121
Delaware, 17841
Denmark, 2323
East Germany, 2324
Ecuador, French Guiana, Paraguay and Uruguay, 7691
Ethiopia, 7692
Europe, regional review, 13690
Far East, regional review, 7705
Finland, 7693, 17842
France, 13689
Gabon, 1122
Georgia, 1123
Germany, Federal Republic, 10914
Ghana, 4764
Greece, 6299
Greenland, 2325
Guinea, 6300
Hawaii, 1124
Minerals—Continued
industries—Continued
Hungary, 2326
Illinois, 2327
India, 2328
Indiana, 1125
Indonesia, 4765
Iowa, 1126
Iran, 4766
Iraq, 2329, 15015
Ireland, 4767
Islands of Caribbean, 9363
Israel, 4768, 15016
Italy, 7694
Ivory Coast, 6301
Japan, 4769
Jordan, 4770, 15017
Kansas, 1127
Kentucky, 1128
Kenya, Tanzania, and Uganda, 7695
Kuwait-Saudi Arabia Neutral Zone, 1129
Latin America, regional review, 9368
Liberia, 7696
Libya, 2330
Louisiana, 2331
Luxembourg, 7697
Maine, 1130, 17843
Malagasy, 10915
Malaysia, 2333
Maryland, 1131
Massachusetts, 1132, 17844
Mexico, 7698
Michigan, 2334
Missouri, 2335
Mongolia, 1133, 16563
Montana, 1134
Morocco, 7699
Near East, regional review, 12238
Nebraska, 1135
Netherlands, 6302
Nevada, 1136
New Jersey, 1137
New Mexico, 2336
New York State, 2337
New Zealand, 6303
Nigeria, 2338
North America, regional review, 6309
North Dakota, 1138
North Korea, 4771
Norway, 7700
Ohio, 2339
Oklahoma, 1139
Oregon, 1140
Pakistan, 4772
Pennsylvania, 2340
Peru, 7701
Philippines, 4773
Poland, 2341
Portugal, 4774
Puerto Rico, Panama Canal Zone, Virgin Islands, Pacific Island possessions, and Trust Territory of Pacific Islands, 17845
Qatar, Trucial States, Muscat and Oman, Federation of South Arabia and Yemen, 4775, 17846
Rhodesia (Southern Rhodesia), Zambia, and Malawi, 7702
Rumania, 4777
Saudi Arabia, 1141, 17847
Senegal, 2342
Sierre Leone, 1142
South Africa, 9364
South Asia, regional review, 2347
South Carolina, 1143
South Dakota, 1144
South Korea, 1145, 16564
South Pacific, regional review, 6310
South-West Africa, 6305
Spain, 7703
Sudan, 6304
Surinam, 6306
Sweden, 9365
Switzerland, 6307
Syrian Arab Republic, 4778, 17848
Taiwan, 4779, 16565

Minerals—Continued
industries—continued
Tennessee, 1146
Texas, 2343
Thailand, 2344
Tunisia, 2345
Turkey, 6308
United Arab Republic (Egypt), 4781, 17849
United Kingdom, 10916
USSR, 4780
Utah, 1147
Venezuela, 10917
Vermont, 1148
Virginia, 1149
Washington State, 1150
West Virginia, 2346
Wisconsin, 1151
Wyoming, 1152
Yugoslavia, 4782
laboratory processes for washing tetrabromoethane from mineral particles, 6320
mineral resources (remarks), 13433
mineral trade notes, monthly inventory, 3204
mineralogy of Deep Springs Lake, Inyo County, Calif., 9018
nonmetallic, except fuels, census of mineral industries, 1963, industry statistics, 15576
nonmetallic mineral products, census of manufactures, 1963, industry report, 5445
Orgueil meteorite, surface conditions of parent body as indicated by mineral associations, 14016
projections to 1985 of crude material, 6290
regional structures of southeast Missouri and Illinois-Kentucky districts, 6029
resources—
challenge to engineering in planning, etc, (remarks), 4754
code of Federal regulations, 5948
Flat Tops primitive area, Colo., 13403
Grandfather Mountain window and vicinity, N.C., 10639
Minas Gerais, Brazil (series), 4518, 12018
Monlevade and Rio Piracicaba quadrangles, Brazil, 12018
Mount Jefferson primitive area, Oreg., 10636
Pico de Itabirito district, Brazil, 4518
San Rafael primitive area, Calif., 10635
Spanish Peaks primitive area, Mont., 12015
stratified primitive area, Wyoming, 12016
Sycamore Canyon primitive area, Ariz., 14747
Washington State, 7218
specialist, examination announcement, amdt., 17034
sulfate and sulfide sulfur in, determination, 12012
yearbook, 1964—
area reports, domestic—
departmental addition, 4785
document edition, 4048
metals and minerals except fuels—
departmental edition, 4783
document edition, 4046
mineral fuels—
departmental edition, 4784
document edition, 4047
Minerals Exploration Office, press releases, 3387
Mines and mining:
common varieties act—
amendments—
hearing, 13215
report, 16138
interpretation and administration, hearings, 1941
Mines and mining—Continued
disagreement among scientists at Krivoy Rog Mining Institute, 16395
dynamics of aerosols in mine workings, USSR study, 10825
exploration expenditures in case of mining, income tax deductions—
law, 15747
reports, 5648, 13154
mine products, carload waybill statistics, 7533, 7536
mineral facts and problems, 1105
mineral production, depletion allowances reported on U.S. tax returns by individuals, partnerships, and corporations, 1960 statistics, 7520
review of mining technology, minerals yearbook chapter, 13700
Rumanian inventions, 10805
see also Coal mines and mining—Hydraulic mine filling—Mine accidents—Mine fires—*also* names of metals and minerals mined.
Mines Bureau:
Albany Metallurgy Research Center, metallurgical progress reports, 1685, 6866, 11439
appropriations, 1967, hearings, 7113
area report, annual, 2686
bulletins, 1105, 10908, 13672–673
coal, 1964 research and technologic work, 1112
coal program, 1965, review, 16559
director, nomination of Walter R. Hibbard, Jr., hearing, 5815
experiment stations, eliminate appropriation limitations, report, 11767
gas-combustion oil-shale retorting process development, 10908
Health and Safety Research and Testing Center, research and technologic work, 17837
information circulars, 1110–12, 2319, 4755–56, 6286–91, 7686, 9359–61, 10910, 12234–235, 13677–683, 15010–012, 16558–560, 17837
press releases, 3388
programs, advance planning, use of economic analysis (remarks), 6311
publications—
and articles, 1960–64, list, 6292
monthly list, 3261
report of investigations, 1155–69, 2348–56, 4788–4802, 6312–26, 7706–18, 9369–87, 10918–931, 12239–261, 13691–698, 15021–031, 16571–586, 17852–867
respiratory protective devices approved, 6287
Minetti, G. Joseph, address, Oct. 20, 1966, 15611
Mingo National Wildlife Refuge, general information, 14659
Miniature bioelectronic device accurately measures and telemeters temperature, 6383
Miniaturization:
high-performance RC, bandpass filter is adapted to miniaturized construction, 13745
miniaturized VHF FM/FM telemetry system, 3798
servo accelerometer, force-balanced, 1216
thin-film technology in microminiaturization of measuring equipment, USSR translations, 7630
Minimax attitude control of aeroballistic launch vehicles, 2367
Minimax technique, *see* Mathematics.
Minimum property standards for multifamily housing, 699
Minimum wage, *see* Wages.
Mining claims, *see* Mineral lands.

Mining engineering:
constructing underground facility, NORAD Combat Operations Center, at Cheyenne Mountain, El Paso County, Colo., methods and costs, 13679
critical path planning and scheduling applied to mining operations, 7709
mine-surveying, facilities and equipment developed at Soviet institute, 16485
photoelastic study of internally stressed circular opening in biaxial stress field, 16571
presplitting flood control gate shaft, Littleville Dam, Huntington, Mass., mining method, technique and cost, 1110
Mining engineers, employment outlook, 9236
Mining machinery:
census of manufactures, 1963, industry report, 5448
continuous borer, use in mining pitching anthracite beds, 9380
equipment, Federal item identification guides for supply cataloging, supplements, 2932
shearer loader, use in longwall mining in Pennsylvania anthracite mine, 7713
Miniskaya oblast, *see* Minsk oblast, Belorussian SSR.
Ministers of religion, *see* Clergy.
Ministry of Higher and Secondary Specialized Education, USSR, bulletin, articles, 6118
Minks, diseases and parasites, 28
Minneapolis, Minn.:
area wage survey, metropolitan area, 9319
commodity transportation survey, production area series, 9958
principal electric facilities, map, 7376
Minnesota:
aspen and projected supply, 14703
climatological data, 2751
county business patterns, 1964, 230
electric rate book, 17656
Fillmore Soil Conservation District, land conservation and watershed dam (colored poster), 9682
labor laws affecting women, summary, 5246
life tables, 18031
manufacturing plants, location by county, industry, and employment size, 1963 census, 14257
markets, balsam fir dimension lumber, 5995
medical assistance for the aged under social security act, 11905
Mississippi River and tributaries, fishery products, wholesale dealers list, 770
northern, status of women, Arrowhead conference, report, 14096
precipitation data, hourly 8045
soil survey laboratory data and descriptions, 16842
timber, quality, trends, etc., 3d look, 10611
women workers, 5254, 16914
Minnesota Chippewa Tribe, *see* Chippewa Indians.
Minneta, Ga., railroad accident, 2138
Minor elements, *see* Chemical elements.
Minorities:
children of minority groups, placing for adoption, 275
groups, research data, Economic Research Service reports, bibliography, 16934
minority group employment in Federal government, 1965, study, 310
Ukrainian emigre comments on minorities in USSR, 6170
Minors, *see* Children.
Minsk oblast, Belorussian SSR, Miniskaya oblast, party and local government cooperation, USSR study, 9128
Mint Bureau:
domestic and foreign coins manufactured by mints of U.S., 1792–1965, 17870
report, 12262
Mintz, Milton S., transport of electrolytes through membrane systems, 16372
Minuteman missiles, *see* Missiles.
Minutillo, Rose, relief, 17181
Mirabella, Angelo, computer based adaptive training applied to symbolic displays, 11154
Miranda y Monteagudo, Maria Y. R., relief, 16057
Miropol'skiy, Leonid M., biographical note, USSR, 13478
Mirror lenses, *see* Lenses.
Mirrors, optical-instrumentation, mount enables precision adjustment, 9490
Mirtich, Michael J., accelerating particles in shock-tubes flows, 4934
Miscellaneous collection series, *see* Smithsonian miscellaneous collection.
Miscellaneous papers, *see* names of departments, etc., issuing papers.
Miscellaneous publications, *see* names of departments, etc., issuing publications.
Mishnun, Florence, training in service occupations under manpower development and training act, 7642
Misses' clothing, *see* names or types of clothing.
Missiles:
ablation materials as coatings for structures in region of separated flow, performance, 1261
accidental explosions, study, manual for investigators, 8304
and space ground support operations—
hearings, 7148
report, 7096
colloidal suspension simulates linear dynamic pressure profile, 11008
combat employment, USSR study, 903
Defense Dept. military procurement appropriations, 1966, report, 17198
ENTAC missile system, rigging, airdrop, 16965
guided—
Federal item identification guides for supply cataloging, supplements, 2940
principles, Navy training text, 15248
manufacturing occupations, employment outlook, 9292
military procurement, appropriations, 1966, supplemental—
hearings, 5797, 7117
law, 7031
reports, 5666, 5757, 7079, 7083
military procurement, appropriations, 1967—
hearings, 8766, 10232
law, 11593
reports, 8644, 8744, 12930
Minuteman program, thrust vector control nozzles, procurement, Air Force Dept., GAO report, 17709
Nike-Hercules missile launching and handling rails, management control, Army Missile Command, GAO report, 17707
Nike-Hercules system, engagement simulator, Army field manual, 5346
Thor vehicle structure, longitudinal vibration, 17916
Missions, *see* Military missions.
Missisquoi National Wildlife Refuge, mammals, list, 4422
Mississippi:
central, insulation in broiler houses, field studies, 10
climatological data, 2751
contested congressional elections, hearings, 516
cotton, 1960–63, mechanical picking spindles and handpicking on quality and spinning performance, 3758
county business patterns, 1724
electric rate book, 712
iron and steel scrap, 9360
landings, fish and shellfish, 3205, 13340
life tables, 18032

Mississippi—Continued
manufacturing plants, location by county, industry, and employment size, 1963 census, 14259
precipitation data, hourly, 3045
Southeast hurricane disaster relief act of 1965—
hearing, 527
law, 459
report, 554
Yazoo County Soil Conservation District, skip-row contoured cotton and farm ponds (colored poster), 9683
Mississippi River and Valley:
Bessie Cutoff, hydraulic model investigation, 678
bridge at or near Clinton, Iowa and Fulton, Ill., revive act, etc., law, 12825
bridge near Muscatine, Iowa, and Drury, Ill.—
law, 12826
report, 13126
Cairo to the Gulf, channel improvement and stabilization, 7719
daily Mississippi River stage and forecast bulletin, 2823
Delta region, impact of pesticides on environment, 15467
embayment—
emerged quaternary shore lines, 14014
low-flow characteristics of streams in southern Arkansas, northern Louisiana, northeastern Texas, 10641
northern Arkansas and Missouri, low-flow characteristics of streams, 6032
fisheries, 1964, annual summary, 8938
light list and other marine aids, Mississippi River System, 8406
lower, revetment construction, savings by reducing overtime and maintenance, Engineers Corps, GAO report, 8986
lower basin, surface water quality, 16364
navigation, 10933
sediment investigations at St. Louis, Mo., 17729
stages and discharges, 13704
tips for managing drought-stricken cottonwoods, 4457
upper—
comprehensive basin study of water and land resources, 7331
ice jam, hearings, 8678
opening to year-round navigation (statement), 1104
upper basin, surface water quality, 10652, 14756
records to Dec. 31, 1964, index, 2098
water resources of embayment (series), 6032, 10641
Mississippian period, Borden formation in south and southeast central Kentucky, 10634
Missouri:
Cape Girardeau County Soil and Water Conservation District, farm pond for stock water and recreation (colored poster), 9684
climatological data, 2751
congressional districts, 90th Congress, 17016
county business patterns, 1725, 5467
electric rate book, 13324
iron and steel scrap, 9360
life tables, 18033
low-flow characteristics of streams, 6032
manufacturing plants, location by county, industry, and employment size, 1963 census, 14257
mineral industry, minerals yearbook chapter, 2335
postal map, 13935
precipitation data, hourly, 3045
public transit compact for Kansas City area, approval—
law, 15766
reports, 13159, 17223
Missouri—Continued
shortleaf pine—
methods of thinning, 795
seeding, 10592
stand density affects yield, 793
understory hardwoods retard growth, 794
soil survey laboratory data and descriptions, 16839
southeast, mineral districts, regional structure, 6029
women, equal pay, 1965 laws, 5237
women workers, 12574
Missouri Basin Inter-Agency Committee:
annual programming report, fiscal years 1966–68, 10934
minutes—
142d meeting, 1174
143d meeting, 9388
144th meeting, 10935
145th meeting, 16588
Missouri Indians:
judgment funds, disposition—
law, 17144
reports, 4114, 5661, 17505
Missouri Pacific RR., accident, 12070
Missouri River and Valley:
basin—
development, Interior Department program, 14755
progress, quarterly report, 3422
surface water quality, 10652, 14756
water pollution control, comprehensive program, 17669
bridges, Burt County, Nebr., refinancing, authorize, law, 429
Lewis and Clark Lake, carp, river carpsucker, smallmouth and bigmouth buffalo, 17676
Missouri River Basin project:
Ainsworth unit, Nebr., Sandhills division, 14005
appropriations, authorization, increase—
law, 12839
reports, 10177, 13131
Garrison diversion unit, construction, report, 17196
Missouri River Basin investigations project report, 9031
Missouria Indians, *see* Missouri Indians.
Mistletoe:
dwarfmistletoe—
control on ponderosa pine, forecasting returns, 17704
infections or red fir, determining age, 17692
removal and reinvasion in Jeffrey and ponderosa pine, 2067
Mitchell, Donald W., fire hazard of urethane foam in mines, 12261
Mitchell, George E.:
dental health programs, Contra Costa County, Calif., etc., 6586
prepaid dental care, glossary, 1430
salaries of dentists and dental hygienists in local health departments, 1284
Mitchell, George W.:
remarks, etc.—
Nov. 19, 1965, 733
Dec. 28, 1965, 2026
Feb. 9, 1966, 4393
Feb. 17, 1966, 5957
Mar. 14, 1966, 5958
Apr. 13, 1966, 7418
June 6, 1966, 10510
June 16, 1966, 10511
Oct. 6, 1966, 16287
Oct. 14, 1966, 16282
Mitchell, Ora, State child labor standards, 4703
Mites, *see* Clover mites.
Mittens, current industrial reports, 3921
Miya, Fred, mortality of cold-stressed mice challenged with viruses by different routes, 79

Miyauchi, David, radiation-pasteurization processes, Pacific crab and flounder, 11437
Mizen, Mamie L.:
Federal facilities for Indians—
Nov. 1964, report, 11788
tribal relations with Federal Government, 1965–66, report, 13192
Moapa Valley Water Co., relief, 8522, 11731
Mobile, Ala., principal electric facilities, map, 7380
Mobile homes, *see* Trailers.
Mobility:
labor, operation of severance pay plans and their implications, 7665
pressure-suited subject under balanced-gravity conditions, water-immersion technique for study of, 4900
tooth, effect of tube-type diet and stress-inducing conditions, 12632
see also Geographic mobility—Mechanical mobility.
Mobilization, *see* Industry—National defense—Production.
Mobley, Thomas C.:
union wages and hours—
building trades, 13609
printing industry, 12216
Mock, Steven J.:
fluctuations of terminus of Moltke Glacier, 12650
snow temperatures on Greenland ice sheet, 6830
Modal interference, very-low-frequency radio waves, 6554
Model hurricane plan for coastal community, 14075
Model Reporting Area for Blindness Statistics, conference proceedings, 13983
Modeling:
thermal, sets of similarity ratios, 11072
transport schedule compilation process, USSR study, 2186
Modelling human behavior, conferences on programming, and automatic control, USSR, 13532
Modernization, *see* Renovizing.
Modulation inducing retrodirective optical system (MIROS) follow-on program, 7730
Module (measurement unit):
Apollo command module, effect of protuberance, etc., on pressure and heat-transfer distribution, 16647
reverse osmosis membrance modules, research and development, 4556
Modulus of elasticity, *see* Elasticity.
Moe, Henry A., nomination, hearing, 7229
Moe, Lyle E., Ghana, supply and demand projections for farm products to 1975 with implications for U.S. exports, 7294
Moeller, George, STANDIVE, Fortran solution of decompression equations, 13666
Moench, Robert H., economic geology of Idaho Springs district, 9011
Moffett, Donovan C., relief of estate, 1803
Mohair:
ASCS program, 6735
production, price and value, 2598, 8094
Mohammedanism:
anti-Islamic atheistic propaganda, USSR studies, 4619
atheistic propaganda against Islam, 10711
attitudes toward women, overcoming them, USSR study, 13480
Communist atheism and Moslem faith, USSR study, 10766
effects of Moslem religion on people, USSR study, 17768
entry on Islam in great Soviet encyclopedia, 10791
Islam and atheistic propaganda, USSR articles, 1025
Islam in USSR, studies, 6226
Islam, USSR book, 4591
Islamic customs in Soviet Union, 6127
Mohammedanism—Continued
Islamic ethics and its social significance, 10715
Islamic religion, articles, 2222
Kirgiziya, USSR, religious vestige, 6113
overcoming ideology of Islam, USSR study, 4598
ritualism in Islam and its social essence, USSR study, 12123
Soviet critique on Islam, 14947
Mohler, Stanley R.:
physician flight accidents, 15559
predominant causes of crashes and recommended therapy, 15554
Mohr, Fred W., industry wage survey, machinery manufacturing, 7670
Moisture:
content—
hardwood pallets, effect on performance, 14714
pinyon and juniper, diurnal and seasonal fluctuations, 13369
variations of several fuel size components of live and dead chamise, 10573
effect on cadmium sulfide solar cells, 17924
fuel—
content of indicator sticks from weather variables, estimates, 10606
timber management, 10582
influence on effectiveness of fire retardants, 5994
Mojdara, Jennifer E. J., relief, 1903
Molar volume, binary fluoride mixtures, 16581
Molasses:
market news—
annual summary, 5832
weekly, 3206
Moldavia, *see* Moldavian Soviet Socialist Republic.
Moldavian Soviet Socialist Republic:
decline of Judaism, 14867
scientific methods applied, 9158
Molds (forms):
graphite, for casting titanium, barrier coatings, investigation, 6538
tooling, cork used, 13763
Molecular biology, *see* Biology.
Molecular diseases, *see* Diseases.
Molecular functions, molecular basis of memory, USSR study, 947
Molecules:
biological macromolecules, electron microscopy, USSR study, 13569
empirical and semi-empirical interatomic and intermolecular potentials, survey, 16715
ion-molecule reactions, bibliography, 13864
molecular—
band systems found in air, spectral distribution functions, 15060
structures, progress report of Organic Chemistry Section, July 1964–June 1965, 1299
studies at Moscow State University, Hungarian scientist reports, 12105
synthesis of high compounds by radiation, polymerization method, USSR study, 9069
polar, capture collisions with ions, semiclassical approach, 6426
Moles (animals):
moles and their control, 4428
Moline, Ill., area wage survey, 4725
Molinski, V. J., radiochemistry of selenium, 1679
Molloy, John K., aerodynamic characteristics of raked-off circular etc., cones, 9527
Mollusca, index-catalogue, 8134
Mollusks:
late Pleistocene marine paleoecology and zoogeography in central California, 16361
Mattheva, new class, 12023
see also Snails.

Molnar, Andrew R., human factors considerations of underground insurgencies, 16961
Moltke Glacier, Greenland, fluctuations of terminus, 12650
Moltzau, Ralph H., jr., battery-operated pilot ballon time-signal generator, 17693
Molucca albizzia, *see* Albizzia.
Molybdenum:
cesium with fluorine, desorption kinetics, 15187
corrosion properties, 4796
disposal from national stockpile—
law, 10064
reports, 8583, 11736
electrowon, consolidation and mechanical properties, 9387
etching process mills Ph 14–8 Mo alloy steel to precise tolerances, 10984
high-purity, preparation by molten salt electro-refining, 17859
high temperature protective coatings for, 1295
minerals yearbook chapter, 15019
oxidation at temperatures at which its trioxide is volatile, 6472
report, monthly, 3207
Ti-8Al-1Mo-1V sheet, fatigue behavior, 1190
tungsten alloys, vapor deposition, 17862
winning, influence of repetitive electrolysis, 16579
Molybdenum trioxide, oxidation of molybdenum at temperatures at which its trioxide is volatile, 6472
Molson, Arnold E., electrical properties of plastic materials, data from technical conference search, 4259
Moments:
and reactions of rectangular plates, 9640
beam and plate vibration in bending modes using lumped parameters, mathematical model, 9518
bending, truss-core sandwich cylinder loaded to failure, test, 4916
gravity-gradient, use for removal of momentum from spacecraft system 7844
periodic, on screw propeller, determination, USSR study, 1048
Moments of inertia:
and damping of liquids in baffled cylindrical tanks, 6334
complex plane figures, instrument calculates, 13742
Momentum, *see* Motion.
Monaural vs. binaural discrimination for filtered CNC materials, 5330
Le Monde (periodical):
French-Russian relations, discussion, 2170
index, 3054
Monel metal, copper-monel, electron beam welding facilitated by circular magnetic shields, 11009
Monetary policy, *see* Money.
Money:
banking and monetary statistics, 11946
circulation statement, 2749
code of Federal regulations, 7400
current monetary and fiscal developments (remarks), 5955
demand deposits, currency, etc., 2848
dollar savings possible through expanded use of foreign currencies to transport personal effects abroad, State Dept., and other Government agencies, GAO report, 14728
Federal reserve portfolio, statements, 4041
FHA and FNMA in current money market, hearing, 5686
flow of funds—
seasonally adjusted, 1962–65 data, 729
seasonally adjusted, 1963–65 data, 5956
unadjusted, 1962–65 data, 730
unadjusted, 1963–65 data, 7419
Money—Continued
foreign currencies—
instruction to travelers on use, 16987
overseas expenditures and transactions, regulations governing reporting, 12547
reservations and currencies, 16879
U.S.-owned, in Poland and Yugoslavia, report, 17853
U.S.-owned, utilization, hearings, 514
foreign exchange rates—
monthly, 2989
weekly, 2990
international monetary arrangements (statement), 14058
international monetary system, its evolution and problems ahead (remarks), 1513
key problems in maintaining monetary stability (remarks), 5957
know your money, 1454
managing our monetary affairs (remarks), 732
monetary policy and allocation of commercial bank credit (remarks), 14637
monetary policy and U.S. balance of payments (remarks), 16281
monetary policy in high employment economy, strategy (remarks), 16286
monetary policy in prosperous economy (remarks), 4390
monetary policy, savings competition, and commercial bank lending behavior (remarks), 11947
monetary system, consolidated condition statement, 2694
monetary tools and capabilities (remarks), 733
money worries? credit union can help, general information, 695
monitoring monetary policy (remarks), 16282
open market rates and bond prices, monthly, 3294
recent credit and monetary developments, 14638
recent monetary developments (remarks), 16283
reserved foreign currencies, use in lieu of dollar for current expenditures, reports, 7188, 17230
scene (remarks), 8924
special foreign currency science information program, 1965 list of P.L. 480 translations in process, 6978–79
supply series, revision, 17662
time deposits in monetary analysis, 2028
tomorrow's money as seen today (remarks), 16287
treasury notes payable in foreign currency, report, 17521
unfit for circulation, verification and destruction—
hearing, 7127
subcommittee report, 7128
updating international monetary system (address), 6682
see also Dollars—Inflation (finance)—Public funds.
Money-saving main dishes, 11352
Mongolia:
coal industry, USSR study, 14865
Inner, Alashan Desert, region types, 16495
mineral industry, minerals yearbook chapters, 1133, 16563
translations, 3609
Monitoring:
ac ground, phase, and neutral wires, 2-light circuit for continuous monitoring, 7808
cardiovascular, NASA contributions, 15084
dry electrodes for physiological monitoring, 11052
effects of knowledge of results and differential monetary reward, 3794
MAMOS system under IBSYS for IBM 7090/7094, 10955

Monitoring—Continued
phonocardiograph system monitors heart sounds, 9466
solid state detectors monitor relay contracts, 15126
supercircular entry guidance concept designed for maximum capability, 17926
system monitors discrete computer inputs, 15119
wide-range temperature, and compensating networks in scientific satellites, new design approach, 16681
Monitors (aeronautics):
aerial radiological monitors, handbook, 15621
Moniz, W. B., NMR analysis of mixed pentaerythritol dipentaerythritol, and trimethylolpropane esters, 1383
Monkeys:
administration of methicillin on monkeys, USSR study, 10753
and their human handlers, staphylococci isolated, 'phage type and antibiotic sensitivity, 8207
colony management, 11384
Macaca mulatta, postirradiation creatinuria, 14190
rhesus, antigen-antibody responses, freeze-preservation of erythrocytes, 95
test, anesthetized by routine procedure, 1208
Monlevade quadrangle, Brazil, geology and mineral resources, 12018
Monographs, Soviet, selected bibliography, 12846
see also names of departments, etc., issuing monographs—*also* subjects.
Monomers:
acrylic, impregnation of wood, 12683
thermosetting, valve seat pores sealed with, 13757
Monomolecular films, adsorption of surface-active material at surface of sea-water samples from Bay of Panama, 6544
Monomoy National Wildlife Refuge, general information, 11974
Monomycin in infectious foci, administration of polyvinylpyrrolidone for prolongation of effect, USSR study, 6124
Monongahela River, navigation conditions at Locks and Dam no. 4, 16250
Monopolies:
antitrust laws—
administration, investigation—
authorization, report, 4187
report, 17461
subcommittee activities, report, 16100
electricity, exempt contracts dealing with sale or exchange, interconnections or power pooling arrangements, hearings, 17576
dual distribution, Clayton act, amend to prohibit vertically integrated companies from engaging in discriminatory practices, etc., hearings, 5817
economic concentration, hearings—
concentration and efficiency, hearings, 1943
print additional copies, report, 538
income tax treatment of treble damage payments under antitrust laws, staff study, 535
Monotonic magnetostriction for nonferromagnetic materials, 16674
Monroe, John A.:
copper industry report, annual statistical supplement, 12691
copper, quarterly industry report, 2798
Montague, William E., effects of knowledge of results and differential monetary reward on 6 uninterrupted hours of monitoring, 3794
Montana:
Cascade County Soil and Water Conservation District, field stripping and farmstead windbreaks (colored poster), 9685
Christmas trees exported, 1964, 796
climatological data, 2751
congressional districts, 90th Congress, 15600
county business patterns, 17001
electric rate book, 713
Indians, general information, 14765
life tables, 18034
manufacturing plants, location by county, industry, and employment size, 1963 census, 14260
medical assistance for the aged, under social security act, 11905
mineral industry, minerals yearbook chapter, 1134
precipitation data, hourly, 3045
soil survey laboratory data and descriptions, 16840
water supply outlook and snow surveys, 3690
Williston basin, oilfields, 13672
Montauk Point, N.Y., to Manasquan, N.J., coastal warning facilities chart, 15419
Monte Carlo method:
approach to touchdown dynamics for soft lunar landing, 1279
interpretations of sphere transmission experiments for capture cross sections, 11080
Monteagudo, Maria Y. R. Miranda y, *see* Miranda y Monteagudo, Maria Y. R.
Montelius, Marjoria, working with groups, guide for administration of group services in public welfare, 14588
Monterey, Calif., *see* Naval Postgraduate School, Monterey.
Monterey County, Calif., geology, 13398
Monterey Harbor, surge-action model, feasibility study, 8861
Montero-Novoa, Angel, relief, 11706
Montgomery, Ala., wholesale food distribution facilities, 11358
Month-end storage in major reservoirs in Pacific Northwest, 3543
Monthly:
NOTE.—For all publications which begin with the word "Monthly", *see* subject, or name of department, etc., issuing publication.
Months, *see* American History Month—Federal Land Bank Month—Steelmark Month—Water Conservation Month—*also* names of special months.
Montoursville, Pa., aircraft accident, 15613
Montrose, geology and uranium-vanadium deposits of La Sal quadrangle, 7486
Moody, R. C.:
edgewise compressive strength of corrugated fiberboard as determined by local instability, 5992
effect of loading rate on edgewise compressive strength of corrugated fiberboard, 10565
Moody, W. T., moments and reactions for rectangular plates, 9640
Mook, Paul V., heart rots of balsam fir, 14695
Moon:
ability of pressure-suited subjects to perform lunar scientific tasks, 1289
craters, inapplicability of Baldwin's correlation to determination of causes, USSR study, 4639
exploration and science, NASA 1965 summer conference, 2371
exploration, USSR, 17761
first cosmonauts on the moon, USSR study, 2184

Moon—Continued
figure and motion, USSR studies, 9122
gravitational field, error analysis of weighted least squares process to determine, 17923
gravity, simulated, effect on man's gaits, 12339
illusion, effect of luminance, 1626
landings—
altitude and descent rate for safe abort during terminal phase, 13830
research vehicle, dynamics study, 9403
Surveyor I, preliminary report, 12283
lunar charts—
AIC 58C, Gambart, 86
AIC 58D, Reinhold, 87
AIC 59C, Triesnecker, 8196
AIC 59D, Pallas, 8197
AIC 60C, Arago, 14180
AIC 60D, Agrippa, 88
AIC 61D, Maskelyne D., 14181
AIC 77A, Flammarion, 89
AIC 79A, Capella, 14182
LAC 43, Macrobius, 84
LAC 44, Cleomedes, 6802
LAC 92, Byrgius, 8195
LAC 97, Fracastorius, 85
LAC 98, Petavius, 14179
RLC 6, Hypatia, 14186
RLC 7–9, Sabine, 14186
RLC 13, Ptolemaeus, 14187
RLC 14–17, Alphonsus, 14187
lunar descent, guidance scheme based on linear perturbation theory, 2430
lunar effects on motion of close earth satellites, analysis, 13845
lunar exploration, space suits, bioenergetics, 10975
lunar landing—
iterative guidance mode, 1246
touchdown dynamics, Monte Carlo approach, 1279
lunar orbits, visual simulation of ability of pilot to establish using simplified guidance technique, 15154
lunar structures as deduced from Muong Nong tektites, 15172
lunar surface, panoramic views, 16710
man's self-locomotion capabilities with space suit in lunar gravity, exploratory study, 12332
manual abort guidance from midcourse region of lunar mission, 11051
mastering of moon by man, USSR study, 12184
midcourse navigation and guidance system using optimal filtering and linear prediction, effect of reduced computer precision, 7890
observations, composition of lunar surfaces, etc., 12375
observations made with 6-inch transit circule 1949–56, 6518
pacing systems of Apollo program, 1868
personnel propulsion devices for use in vicinity, 4822
physics, characteristics, exploration, etc., papers, 1243
problem, Hansen's coordinates, development by method of iteration, 7887
Project Ranger, NASA facts, 1193
Ranger VIII, photographs, 12280
Ranger IX, photographs, 12281
return from moon to specific landing site, midcourse guidance, 6461
satellite, estimating orbital elements, 4911
seismic studies, problems, USSR study, 6104
sensitivity of short-period tracking data from lunar satellite to lunar gravitational field harmonics, 1271
Moon—Continued
surface—
fluidization processes under lunar conditions, 17881
use of penetrometers to determine capability of dust materials to support bearing loads, 4946
unmanned exploration, Project Surveyor, report of Subcommittee on NASA Oversight, 530
view from Ranger, 12277
Mooney, James E., commendation, 8670
Moore, Billy J., analyses of natural gas of United States, 15011
Moore, Edwin W.:
effects of motion sickness on dynamic characteristics of responses to coriolis stimulation, 100
responses to coriolis stimulation in flying personnel, 9873
Moore, Harry H., distribution of fishes in U.S. streams tributary to Lake Superior, 780
Moore, J. Cordell:
remarks—
Oct. 25, 1965, 849
Feb. 18, 1966, 6061
Mar. 1, 1966, 6060
Mar. 29, 1966, 7511
July 19, 1966, 13433
Sept. 8, 1966, 14769
Moore, R. A., recent developments in dairy cattle nutrition, 9779
Moore, W. E., spreader for preparation of uniform plates for thin-layer chromatography, 8954
Moore, William R., defending United States from nuclear fire, 16320
Moorehead City, N.C., port, 13294
Moose River and Valley, synclinorium, paleozoic gastropoda, 17721
Moosehorn National Wildlife Refuge, mammals, list, 4419
Mora, Antonio Gonzalez-, *see* Gonzales-Mora, Antonio, and wife.
Morad, Ali Hajl-, relief, 17456
Moraes, Joao B. Mascarenhas de, Brazilian Expeditionary Force by its commander, 9356
Moraines, mode of uplift of McMurdo Ice Shelf, Antarctica, of fish and fossiliferous moraines, 5344
Morale, aircrew, factors affecting, 15490
Morbidity:
morbidity and mortality weekly report, 3225
smallpox, throughout world in 1960–64, data, 6223
see also Diseases of animals.
Moré language, Foreign Service Institute basic course, 14031
Morelle, Wilellyn, merchant and dealer credit in agriculture, 8923
Morgan, Reese R.:
agricultural chemicals, 3894
cleaning and toilet products, 5442
drugs, 6901
industrial inorganic and organic chemicals, 8333
miscellaneous chemical products, 3895
paints and allied products, and gum and wood chemicals, census of manufactures, 1963, industry statistics, 6902
plastics materials, synthetic rubber, and man-made fibers, 3893
rubber and miscellaneous plastics products, 6904
Morgan, Roy L.:
addresses, etc.—
Nov. 5, 1965, 325
Nov. 9, 1965, 326
Nov. 10, 1965, 327
Nov. 15, 1965, 328
Nov. 17, 1965, 1779
Nov. 19, 1965, 352

Morgan, Roy L.—Continued
addresses, etc.—continued
Dec. 9, 1965, 324
Dec. 14, 1965, 1768
Mar. 7, 1966, 5542
Apr. 4, 1966, 6996
Apr. 19, 1966, 8420
Apr. 25, 1966, 8434
Apr. 28, 1966, 8419
May 25, 1966, 10035
May 26, 1966, 10034
May 27, 1966, 10043
June 29, 1966, 11525
July 20, 1966, 12787
July 21, 1966, 12791
Aug. 8, 1966, 12769
Aug. 9, 1966, 12793
Aug. 11, 1966, 12792
Morgan, William C., comparison of experimental and theoretical stresses at mismatch in circumferential joint in cylindrical pressure vessel, 16676
Morgan City, Fla., to Apalachicola, coastal warning facilities chart, 7340
Morgan County, Ga., soil survey report, 5149
Morning, John L.:
chromium, 16555
molybdenum, 15019
Morocco:
Army area handbook, 11401
background notes, 1484, 18112
economy, basic data, 12783
mineral industry, minerals yearbook chapter, 7699
Morphology:
aquatic mammals, USSR study, 14921
normal and pathological, Rumanian national conference on problems, 14842
problems, USSR study, 14825
Morrell, Lester G.:
mineral industry—
Australia, 6295
British Solomon Islands, Christmas Island, Fiji Islands, Makatea, Nauru and Ocean Islands, New Caledonia, New Hebrides, and Papua and New Guinea, 6297
Canada, 7689
Greenland, 2325
New Zealand, 6303
North America, regional review, 6309
South Pacific, regional review, 6310
Morris, A. C., jr., low-background whole-body counting facility design, 6857
Morris, Dolores G., convey land to, 17088, 17416
Morris, Garland J., response of turbojet, etc., airplane to runway roughness, 4919
Morris, Gwilym L., estate, convey land to, 17088, 17416
Morris, James F.:
calculations of thermal, field emission for terminated image potential, 6354
energy transport by thermal field emission, 11070
Morris, Joe P., use of diphenyl ether calorimeter in determining heat of fusion of iron, 6315
Morris, Odell A., wind-tunnel investigation of sonic-boom characteristics of delta-wing-body combination, etc., 11075
Morrison, D. G., procedures for establishment of public 2-year colleges, 13280
Morrison, Harold, generic names of scale insects, 16931
Morrison, Warren E., review of mineral-fuel industries, 2357
Morriss, E. Frances, statistics on cotton and related data, 1925–62, supplement 1965, 64
Morro Rock Lighthouse Reservation, portion conveyed to California, remove restriction, law, 11587
Morse, C. Robert, effect of projectile size and material on impact fracture of walls of liquid-filled tanks, 16688
Morse, Mary F., relief, 5625, 5570
Morse, Peter, Rembrandt's etching technique, 9566
Morse, Wayne, visit to Japan, India, Pakistan, Afghanistan, and Israel by Senate delegation, report, 5811
Morsh, Joseph E., evolution of job inventory and tryout of task rating factors, 6808
Mort, Kenneth W.:
longitudinal aerodynamic characteristics of M2–F1 lifting body flight vehicle, 6468
performance characteristics of 4-foot-diameter ducted fan at zero angle of attack for several fan blade angles, 2416
Mortality, *see* Death.
Mortgage insurance:
dealers and individuals subject to certain sections of title 1, National housing act, list, 5934
FHA—
project, FHA regulations, amendments, 2016, 4376, 5937, 8898, 11919–921, 16271
quick guide for buying a home, 13322
rental and cooperative housing for families of low and moderate income, consumer bulletins, 4372, 11916
value costs and maximum amounts, 14630
FHA and FNMA in current money market, hearing, 5686
FHA and home-buying serviceman, 13319
FHA approval for high-rise multifamily housing project, Newark, N.J., GAO report, 6003
FHA approval for housing project for elderly—
Fort Worth, Tex., GAO report, 6021
Houston, Tex., GAO report, 6022
FHA homes—
area trends, 4371, 10473
consumer bulletins, 2015, 11917
Spanish edition, 7368
financing for home purchases and home improvements, consumer bulletins, 5935, 14629
regulations, amendments, 4374–75, 5936, 7367, 8897, 11918
State trends, 4377, 10475
group medical and dental practice facilities, constructing and equipment—
hearings, 8659
reports, 13188, 14388, 15897, 17202, 17241, 17336
summary of House bill, 8664, 13023
guaranty companies, reserve funds, tax treatment, report, 17536
housing digest, 7364
minimum property standards for urban renewal rehabilitation, 16272
nursing homes, FHA program, 13321
repair practices rel. to single-family properties acquired by FHA, GAO review, 12005
title 10, FHA land development handbook, 11922
VA loan guaranty program, purchase of title insurance on properties acquired in Florida, GAO review, 12004
see also Federal ship mortgage insurance fund—Forbearance.
Mortgages:
amortization and insurance, premium tables, 8895
farm—
debt by States, 1972
lending experience of life insurance companies, 14547
FHA appraised values and maximum amounts for 1-family residences, 4373

Mortgages—Continued
home—
debt, estimated, quarterly, 2889
FHA trends, 2974
interest rates and terms, 3043
nonfarm—
investments of life insurance companies, 1965, 14628
real estate foreclosure report, 3275
recording letter, monthly, 3226
sales of financial assets by Government agencies, submission of data, regulations, 14050
savings and mortgage activity, selected balance sheet items, 3010
savings and mortgage lending activity, 2674
ship mortgage bonds, sale to noncitizens—
hearings, 572
law, 446
stimulate flow of credit for FHA and VA assisted residential construction—
law, 17100
reports, 15846, 17217, 17464
see also Loans.
Morton, James G.:
remarks—
Mar. 24, 1966, 7012
Sept. 13, 1966, 15653
Mosaic diseases, sugarcane virus, strains, 8170
Moscow People's University of Physical and Technical Knowledge, USSR study, 984
Moscow, Russian SFSR, blood transfusion under ambulatory conditions, USSR study, 7634
Moscow State University:
molecular studies, Hungarian scientist reports, 12105
news of geology, 13523
specialists in meteorology, hydrology, and oceanography, training, 894
Moseley, Donald S., nonseparable solutions of Helmholtz wave equation examined for applications, 15523
Moseley, George W., investigation of splitter plates for aerodynamic separation of twin inlets, 7892
Moshos, George J., error analysis of binary rate multiplier, 2417
Moskal, B. J., sonic fatigue characteristics of aluminum viscoelastic panels, 9400
Moslems, *see* Mohammedanism.
Mosquitoes, extermination, use of bacteria, USSR study, 1000
Mosses:
Spanish, cesium-137 binding characteristics, 2522
surface, effect on frost penetration and tramcability in two peat-soil sites, 5981
Most delicious career, 10427
Motels, *see* Motor courts.
Mother tongue of foreign born, 5501
Mothers:
maternal health needs and services, effects of recent demographic trends, 11484
maternal mortality, U.S., 18082
Moths:
genus Haimbachia Dyar with descriptions of new species (Lepidoptera, Crambidae), review, 2468
gypsy, arming against, control, etc., 15472
see also Bee moths—Clothes moths—European pine shoot moths—Gypsy moths.
Motion:
angular momentum, removal from spacecraft momentum-exchange system, 7844
compact actuator rotary to linear motion, 12307
cross-channel transfer of linear momentum in smooth rectangular channels, 825
deck motion simulator program, horizontal sinusoidal oscillation effects upon performance of standing workers, 16671
deck, of aircraft carriers, determination, 1354
Motion—Continued
figure and motion of moon, USSR studies, 9122
induced motion, analysis, 7973
vertical, effect on current meters, 17731
see also Equations of motion—Movement (psychology).
Motion pictures:
Agriculture Department—
bimonthly list, 2706
films for television, 9823
air pollution films, 11180
catalog of copyright entries, 17604
census of business, 1963, selected services, 1699
child life films, list, 276
civil defense catalog, 17029
Coast Guard films, catalog, 6990
copyrighted—
July-Dec. 1964, 598
Jan.-June 1965, 8793
films on aging, selected references, 5262
fire safety films, list, 14741
fishery, for TV, etc., 14655
Forest Service films available for educational purposes, list, 5971
Library of Congress catalog, 3147
medicine and allied sciences, film reference guide, 13963
National Aeronautics and Space Administration, 16 mm. film list, including film library locations and service areas, 12377
neurological and sensory disease, film guide, 13976
popular level (16mm), AEC catalog, 15552
professional level (16mm), AEC catalog, 11445
Public Health Service film catalog, 15299
shades of forgotten ancestors, Ukrainian film, comments, 9063
Motion sickness:
effects on dynamic characteristics of responses to coriolis stimulation, 100
etiology, management, etc., 14189
pilots and nonpilots, speed of recovery from coriolis stimulation, 14194
Motivation (psychology):
Federal employees through within-grade pay increases, 3981
Motive power, *see* Power.
Motley tolstolobiks, *see* Aristichthys nobilis Rich.
Motor ability, *see* Ability.
Motor carrier decisions, *see* Interstate Commerce Commission.
Motor carriers:
act of 1935, evaluation on 30th anniversary, 1934
certain employees, exemption from maximum hours, code of Federal regulations, 6694
class 1 and 2, cost of transporting freight, 17746
cost studies, general freight—
East-South territory, 6085
eastern-central territory, 6086
Middle Atlantic region, 6087
South-central territory, 7538
Southern region, 6088
employees, extending overtime provisions of fair labor standards act, 5222
for-hire motor carriers operating under agricultural exemption with regulated motor carriers, comparison, 16929
mail transportation, hearings, 11675, 14436
operating rights, I.C.C. reports consolidated index-digest, 867
passengers, certificates issued in future shall not confer right to special or charter operations—
hearing, 17387
report, 17302
property, class 3, selected statistics, 2143

Motor carriers—Continued
regulations to govern destruction of records, 6100
revenues, expenses, other income, etc.—
class I carriers of passengers, quarterly, 3478
large carriers of property, quarterly, 3479
safety road-checks, Interstate Commerce Commission, 1964–65 data, 16386
transport statistics, 9059, 12087
see also Motor vehicle accidents.
Motor cases, *see* Rocket motor cases.
Motor courts, motels and tourist courts, census of business, 1963, selected services, 6885
Motor cycles, *see* Motorcycles.
Motor fuel:
storage tank linings, effects of anti-icing additive, 1369
taxation, highway, airway, and waterway user act of 1966, proposed legislation, technical explanation, 7168
see also Fuel—Gasoline.
Motor functions, coordination in man during muscular activity, USSR studies, 14824
Motor reactions, hypoxia and performance decrement, 15557
Motor trucks, *see* Motortrucks.
Motor vehicle accidents:
District of Columbia—
uninsured motorist coverage required part of liability policies, report, 16117
uninsured motorist, suspension of licenses, etc. report, 16118
investigation reports, 872–873, 6091–93, 7541, 9057–58, 10697, 12068, 13442–443
medical care and transportation of injured, 5130
property carrier, 1964, operating revenues, $200,000 and above, 6079
traffic safety, Federal role, hearings, 4222, 10347, 13214
Motor vehicle operators:
driver's handbook, Air Force pamphlet, 74
driving occupations, employment outlook, 9232
Motor vehicles:
air pollution, clean air act, report of HEW to Congress, 7172
print as Senate document, report, 7190
and equipment—
census of manufactures, industry report, 3903
commodity transportation survey, shipper series, 221
Armed Forces members, transportation at Government expense, amend U.S. Code—
hearing, 14409
report, 12938
assistance for workers under automotive products trade act of 1965, 12196
automotive air pollution, semiannual report of HEW to Congress, print as Senate document, report, 13172
automotive service and repair equipment in Sweden, foreign market survey, 175
combat vehicles, maintenance, Army Dept., GAO review, 14736
construction and technology of production, USSR, 10728
contract service, savings available through more extensive use by Post Office Dept., GAO report, 809
emission of air pollutants, standards for controlling—
amendments, description, 2107
law, 396
employee earnings and hours at retail automotive dealers, 13613
equipment, manufacturing, employment outlook, 9306
Federal item identification guides for supply cataloging, supplements, 2932
Motor vehicles—Continued
highway and motor vehicle safety (address), 17053
Indian Affairs Bureau management, need for improvement, GAO report, 7468
leasing for use of Government contractors, Defense Dept., GAO review, 16348
manufacturing, employment outlook, 9306
mechanics, training in fundamentals of engine tuneup, instructor's guide, 12453
overhaul, specialized and centralized, USSR study, 2204
reducing number maintained in fleet. Soil Conservation Service, Department of Agriculture, GAO report, 10620
replacement and procurement program, Post Office Dept., GAO review, 14738
safety standards, establish—
hearings, 8769, 10251–252
law, 15741
reports, 12975, 14391, 16077
Tariff Commission report to Automotive Agreement Adjustment Assistance Board in case pertaining to Fram Corporation, 15387
tariff elimination, agreement with Canada, implementing, report, 490
tracked combat vehicles, military procurement, appropriations, 1966, supplemental—
hearings, 5797, 7117
law, 7031
reports, 5666, 7079, 7083
tracked combat vehicles, military procurement appropriations, 1967—
hearings, 8766, 10232
law, 11593
reports, 8644, 8744, 12930
transportation of privately owned vehicles on foreign-flag vessels, Military Sea Transportation Service, GAO report, 9004
used tires, rebuilding, savings that can be attained, GAO report, 12008
world production and registration, 3870
Motorbuses:
charter rights, incidental to grant of regular route authority does not confer right to engage in special or charter operations—
hearing, 17387
report, 17302
interstate, proration compact—
Conn., R.I., Vt., consent of Congress, law, 414
Massachusetts, consent of Congress, reports, 8563, 14453, 17347
sanitation, standards, handbook, 16794
Motorcycles, Federal item identification guides for supply cataloging, supplements, 2932
Motorists, knowledge of no smoking ordinance in southern California, 2066
Motors:
motor engine building, wasteful diversity, USSR study, 965
motors and generators, current industrial reports, 259
spin, Marc 36A1, 1–K8–75; for Scout vehicles, design, test and documentation, 4816
see also Electric motors—Torque motors.
Motortruck drivers, and helpers, union wages and hours, 13610
Motortrucks:
commercial-design, potential savings through improvement in management, Marine Corps, GAO report, 14732
industry report, monthly, 3228
inventory and use survey, 1963 census of transportation, 3908
see also Firefighting vehicles.
Motortrucks in freight service, operating bulk-feed trucks, costs and practices of selected cooperatives, 4351

Moulds, Donald E.:
antimony, 14999
bismuth, 13670
Mound City Group National Monument, general information, 12399
Mount Desert Island Regional School District, Maine:
convey land to—
law, 17113
reports, 15911, 16111
Mount Edgecumbe, Alaska, charges for Government-owned quarters, by Public Health Service, GAO review, 14735
Mount Hermon School, East Northfield, Mass., carillon, duty-free entry, 17188
Mount Jefferson, primitive area, mineral resources, 10636
Mount McKinley National Park, general information, 17960
Mount Rainier National Park, general information, 6513
Mount Rainier volcano, Little Tahoma Peak, rockfalls and avalanches, 2092
Mount Rogers National Recreation Area:
establish—
hearings, 4118
law, 10089
Mount Vernon Memorial Highway, *see* George Washington Memorial Parkway.
Mountain Park Project, construction, operate, and maintain, Interior Dept. report, 12855
Mountain States, *see* Rocky Mountain States.
Mountain winds, *see* Winds.
Mountains, stability of ultrashort wave signals along medium range routes, USSR study, 7556
Mounting bases:
mount makes liquid nitrogen-cooled gamma ray detector portable, 9455
optical-instrumentation mirror, mount enables precision adjustment, 9490
Mounting facilitates removal and installation of flame-detector rods, 7803
Mounting improves heat-sink contact with beryllia washer, 7798
Mountings, *see* Mounting bases.
Mourning doves:
hunting, possession, transportation, importation in Alaska, 1966–67, Federal regulations governing, 14673
1965 status report, 10538
Mouse, *see* Mice.
Mouth:
astrostomatology, dental standards for selection and examination of space crewmen, 12641
cancer of, 13968
dental research, highlights, search for oral health, 5212
oral cancer—
control, 18065
guidelines on professional education projects, 5105
oral diseases, brief review of research studies, 5031
oral hygiene in adults, 12489
oral hygiene procedures in presence of tube-type diet, 12633
physiologic chemistry of human oral secretions, 9869, 11379
Movement (psychology):
coordination of human voluntary movements during flight in outer space, USSR study, 7547
Moving, *see* Transportation.
Mowers, *see* Mowing machines.
Mowing machines, power mowers, injuries and young workers, 10849
Moyer, Forrest T.:
employment and injuries in fuel industries, 1109
employment and injuries in mineral industries, 2318
injury experience in coal mining, 4756
Moynihan, M., display patterns of tropical American nine-primaried songbirds, yellow-rumped tanager, 9649
Mozambique (Portuguese East Africa):
mineral industry, minerals yearbook chapter, 6294
MSI series, 2680, 3503–4
Mucopolysaccharides, preparation, effect of prophylactic administration on hemopoiesis and survival of animals following X-ray irradiation, USSR study, 6221
Muddy Bayou:
flood control, engineer report—
departmental edition, 4333
document edition, 4064
Muerle, Gerhard F., timber harvest in California, 10612
Mugiloididae, *see* Parapercis kamoharai.
Mui Kim Chen Liang, *see* Liang, Mui Kim Chen.
Muir Woods National Monument, general information, 6514
Mukden, Manchuria, China, 39th Army operation, 1945, USSR study, 1065
Mulching, plastic, effect on weed growth and early height growth of Honduras pine, 16327
Mule Creek Oil Co., Inc., relief, 15696, 15788
Mulford, Harold A., identifying problem drinkers in household health survey, 13999
Mulligan, John J., tin-lode investigations, Cape Mountain area, Seward Peninsula, Alaska, 6323
Mullins, James A., determination of mean atmospheric densities during minimum solar activity by means of Explorer satellite, 11059
Mullins, Paul V., vapor pressure of carbon dioxide at ice point, 10928
Multicolor stroboscope pinpoints resonances in vibrating components, 11017
Multi-disciplinary Conference on Domiciliary Care, report, 18134
Multipactor action, space electronic systems, breakdown, 12264
Multiple linear regression analysis of officer career attitudes, 3790
Multiple sclerosis, progress in research, summary, 2461
Multiplexing, and unified (integrated) switching system, application of pulse-code modulation (IKM) in building, USSR study, 926
Multiplication, four-quadrant, circuit provides, accurately, 13766
Multipliers, binary-rate, error analysis, 2417
Multipoles and multiple-connected pulse systems, USSR, 4615
Multisurface fixture permits easy grinding of tool bit angles, 9478
Multivariate processes, *see* Statistical processes.
Mulvihill, R. J., probabilistic methodology for safety analysis of nuclear power reactors, 12684
Mumford, Bessie C., list of intercepted plant pests, 6716
Mumps, health information series, 18006
Mundorff, James C.:
fluvial sediment and chemical quality of water in Little Blue River basin, Nebr. and Kans., 17728
sedimentation in Brownell Creek subwatershed no. 1, Nebr., 16363
Municipalities, *see* Cities and towns.
Munitions:
air, status, hearings, 10324
arms and armaments, PACAF basic bibliography, 12627
Muniz y Sotolongo, Julio C., relief, 15819, 17440
Munse, Albert R., State programs for public school support, 4318
Muong Nong tektites, *see* Tektites.

Muraca, Ralph J., empirical method for determining static distributed aerodynamic loads on axisymmetric multistage launch vehicles, 7833
Murata, K. J.:
acid fumarolic gas from Kilauea Iki, Hawaii, 4523
chemistry of lavas of 1950–60 eruption of Kilauea Volcano, Hawaii, 7488
Murder:
Murder International, Inc., murder and kidnaping as instrument of Soviet policy, hearing, 583
suspected, of anti-Bolshevist Ukrainian Kazimir S. Dzhugalo, 7611
Murphy, Charles S.:
remarks—
Nov. 4, 1965, 286
Nov. 5, 1965, 287
Nov. 16, 1965, 285
Dec. 3, 1965, 1743
Jan. 12, 1966, 3959
Mar. 1, 1966, 5508
Mar. 25, 1966, 6949–50
Mar. 31, 1966, 6951
May 4, 1966, 8377, 8379
May 23, 1966, 9979
June 25, 1966, 11489
Sept. 21, 1966, 15617
Oct. 3, 1966, 15616
Murphy, James L.:
do petroleum-based protective coatings add fuel value to slash? 10572
timber fuel-breaks and fuel moisture, 10582
Murphy, James P., lunar and solar effects on motion of close earth satellites, 13845
Murphy, Kathryn R., spending and saving in urban and rural areas, 2293
Murphy, Newell R., measuring soil properties in vehicle mobility research, evaluation of rectangular hyperbola for describing load-deformation response of soils, 4339
Murphy, Robert T.:
addresses, remarks, etc.—
Feb. 12, 1966, 3949
Apr. 27, 1966, 8376
June 23, 1966, 11490
Sept. 20, 1966, 14286
Murphy, Thomas E.:
lock filling and emptying system, Holt Lock and Dam, Warrior River, Ala., 1993
outlet works, Cochiti Dam, Rio Grande, N. Mex., hydraulic model investigation, 4338
Murray, Hugh S., stability of coupled-core nuclear reactor systems, 9421
Murray, R. I., hydraulic downpull forces on large gates, 18088
Murray, William M., jr., heat-transfer and pressure distributions on 60° and 70° swept delta wings having turbulent boundary layers, 16697
Murzyn, Edward F., relief, 5750, 8449
Musala Mountain Research Station, Bulgaria, cosmic ray research, 2207
Muscat:
background notes, 16851
mineral industry, minerals yearbook chapters, 4775, 17846
Muscat and Oman, sultanate, *see* Muscat—Oman.
Muscatine, Iowa:
bridge across Mississippi River—
law, 12826
report, 13126
Muscatine Bridge Commission:
construct bridge across Mississippi River near Muscatine, Iowa, and Drury, Ill.—
law, 12826
report, 13126
Muscles:
coordination of motor and vegetative functions in man during muscular activity, USSR studies, 14824
electric impulses revitalize muscles, Yugoslavian study, 10804
glycogen of anesthetized dog, effects of hydrazine, 9864
somatic fibers, spread of injury in, USSR study, 14932
Muscovite:
disposal of muscovite mica from national and supplemental stockpiles—
hearing, 10325
law, 10070
reports, 8585, 8753
Muscular tension, *see* Tension.
Muse, Dorothy, how to find U.S. Statutes and U.S. Code citations, 521
Musen, Peter:
numerical theory of satellites with highly inclined orbits, 2408
on high order effects in methods of Krylov-Bogoliubov and Poincaré, 4907
Museum of Comparative Zoology, Nearctic Trichoptera, notes, 6497
Museums, cooperative assistance from National Museum, authorize, report, 10216
see also names of museums or places where located.
Musgrave, John R., purification and crystallization of amorphous boron powder by zone refining, etc., 11436
Musgrave, Paul W., aerospace medicine considerations in manrating space environment simulators, 15481
Mushrooms, drum-dried powder, new product, 12584
Music:
concert music by American composers, catalog, 1525
copyright for musical compositions, 7248
Indians, 4545
Library of Congress catalog, 12229, 16545
Musical instruments:
and parts, census of manufactures, 1963, industry report, 3906
Federal item identification guides for supply cataloging, supplements, 2939
Musical pitch, discrimination, practice effects, knowledge of results and transfer, 11155
Musicians, occupations, employment outlook, 9257
Muskegon, Mich., area wage survey, metropolitan area, 14972
Muskegon Heights, Mich., area wage survey, metropolitan area, 14972
Muskegs, *see* Peat bogs.
Mussels:
certified shippers, lists, 2742
what you should know about them, 2545
Muthard, John E., case load management for vocational rehabilitation staff, 2622
Mutual assistance, *see* Military aid.
Mutual defense, *see* Military aid.
Mutual defense assistance control act of 1951, *see* Exports.
Muzyka, Ann, optimum earth re-entry corridors, 6342
Mycobacteriosis, *see* Tuberculosis in animals.
Myers, Clifford A., yield tables for managed stands with special reference to Black Hills, 13373
Myers, James W., ignition and control of burning of coal mine refuse, 9379
Myers, Kathleen, first adjustment of employee-benefit health plans to medicare, 11230
Myers, Kenneth H., facts for prospective farmers, 12599

239-221—67—No. 863——28

Myers, Robert J.:
comparison of actual experience under OASDI system with short range-cost estimates, 6603
mortality study of charter beneficiaries, 18098
old-age, survivors, disability, and health insurance provisions, legislative history, 2564
Mylar, O-rings with Mylar back-up provide high-pressure cryogenic seal, 12319
Mylecrain, Walter E., public domain, 652
Mylonas, C., exhaustion of ductility under notch constraint following uniform prestraining, 14009
Myocardial infarct, *see* Heart diseases.
Mystic Shrine, *see* Ancient Arabic Order of Nobles of Mystic Shrine.
Myung Hee Cho, *see* Cho Myung Hee.
Myung Soon Cho, *see* Cho Myung Soon.

N

N.A.S.A., *see* National Aeronautics and Space Administration.
N.A.T.O., *see* North Atlantic Treaty Organization.
N.B.S., *see* National Bureau of Standards.
N.I.H., *see* National Institutes of Health.
N.L.R.B., *see* National Labor Relations Board.
N.O.L., *see* Naval Ordnance Laboratory, White Oak, Md.
N.R.A.B., *see* National Railroad Adjustment Board.
N.R.L., *see* Naval Research Laboratory.
N.R.O.T.C., *see* Naval Reserve Officers Training Corps.
Nabokoff, Katherine, relief, 8529
Nabrit, Samuel M., remarks, Oct. 8, 1966, 16981
Nace, Raymond L., remarks, Aug. 25, 1966, 14753
Nacelles, orientation effect on aerodynamic characteristics of arrow wing-body configuration, 6449
Nachtsheim, Philip R., role of conductivity in hydromagnetic stability of parallel flows, 2428
Nagel, A. L., hypersonic pressure and heat transfer tests on delta wings, 15047
Nagle, George S., market for fireplace wood in urban area of Connecticut, 17700
Nagy, John, thermal phenomena during ignition of heated dust dispersion, 13695
Nahal, L.:
mineral industry of France, 13689
regional mineral industry, review of Europe, 13690
Nahas, Gabriel A., and wife, relief, 17073
Nails and spikes, nail holding on field boxes, effects of preservative treatments, 4467
Nakanishi, Shigeo, high-voltage isolation device for ion-thrustor propellant feed, 13838
Nakano, Noriko S. Duke, *see* Duke (Nakano), Noriko S.
Names (business), *see* Business names.
Names (geographical), *see* Geographical names.
Names (personal):
index medicus, cumulated, 12394
Nance, Paul K.:
business management in selected colleges and universities, 8837
guide to college and university business management, 1977
Napa, Calif., commodity transportation survey, production area series, 9959
Narcotic habit:
addicts in Public Health Service hospitals, treatment, rehabilitation, research, 9028
control and treatment of narcotic use, 14079
Narcotic habit—Continued
drug habit, big problem!, 10547
narcotic addict rehabilitation—
hearings, 11668, 13221
reports, 10122, 16163, 17344
Narcotics:
abuse control amendments of 1965—
FDA conference, proceedings, 10550
report, 1911
addicts in Public Health Service hospitals, treatment, rehabilitation, research, 9028
decisions, weekly report, 3623
drug habit, big problem!, 10547
prescribing and dispensing under Harrison narcotic law, 13705
traffic, 15035
Narragansett Bay:
area, hurricane survey, engineer report—
departmental edition, 11893
document edition, 11613
Narrow, Bernard G., computer program to evaluate effectiveness of PCM frame synchronization strategies, 7858
NASA, *see* National Aeronautics and Space Administration.
NASA EP series, 1192, 2370, 7750–51, 9443, 10972–794, 12275–277, 15078, 17886–887
NASA facts, 1193, 6350, 9444, 12278, 13720–721, 17888
NASA SP series, 1194–1203, 2371–75, 4833–37, 6352–62, 7752–57, 9445–51, 10975–983, 12279–291, 13722–728, 15079–91, 16619–622, 17889–891
spring 1966, list, 7758
NASA tech briefs, 1204–37, 2376–2403, 4838–91, 6363–6410, 7759–7809, 9452–99, 10984–11045, 12292–331, 13729–800, 15092–129, 16623–646, 17892–909
indexes, 6356, 15083
Nashville, Tenn., air resource management plan, 6577
Nassau, Bahamas, harbor, rubble-mound breakwaters, stability, 679
Nassau County, N.Y.:
Roosevelt Field, air pollution measurements, 7989
southern, salt water encroachment, 10648
Nassau Harbor, improvements, optimum plan, 1992
Natality, *see* Birth.
Nation aroused, 8825
National, *see* headings beginning National.
National Academy of Sciences:
report, 1962—
departmental edition, 6327
document edition, 5716
National Advisory Board Council, Interior Dept., public land management, proceedings, 26th annual meeting, 10887
National Advisory Commission on Food and Fiber:
appropriations, 1967—
hearings, 8648
law, 15735
reports, 8614, 13152, 17216
National Advisory Community Health Committee, medical rehabilitation, report to Surgeon General, 18061
National Advisory Council on Education of Disadvantaged Children, report, message from the President, 11604
National Advisory Council on Historic Preservation, establish, report, 13148
National Advisory Council on International Monetary and Financial Problems, reports, 1797, 7053, 11612
National Advisory Council on Medical, Dental, Optometric, and Podiatric Education, establish, law, summary, 4534
National Aeronautics and Space Administration:
act of 1958, as amended, and related legislation, staff report, 7200
administrative history, 13728

National Aeronautics and Space Administration—Continued
Ames Research Center, Moffett Field, Calif., automatic data processing equipment, planning and utilization, GAO report, 10621
appropriations, 1967—
hearings, 8651, 13193
waive all points of order against provisions contained under heading NASA, report, 10125
appropriations, 1967, authorization—
hearings, 7164, 7199, 8683
index, 11683
law, 17096
reports, 8609, 8623, 11737, 12964
careers in aerospace technology, guide, amdt., 5517
conference on V/STOL and STOL aircraft, Moffett Field, Calif., 9447
contractor report CR (series), 1179–91, 2358–69, 4804–32, 6328–49, 7721–48, 9390–9442, 10936–970, 12264–274, 13707–719, 15037–77, 16589–618, 17872–884
contributions to cardiovascular monitoring, 15084
deputy administrator, nomination of Robert C. Seamans, jr., hearing, 4208
EP series, 1192, 2370, 7750–51, 9443, 10972–974, 12275–277, 15078, 17886–887
film list, 16mm., including film library location, map and service areas, 12377
historical sketch of NASA, 2370
index to management issuances, policy directives, management instructions, 1178
installations, master planning—
hearing, 5708
interim report, 5634
Inventions and Contributions Board, petitions for patent waiver, findings of fact, etc., 7904
missile and space ground support operations—
hearings, 7148
report, 7096
NASA contractors trim cost, 7749
NASA directory of services for public, 17885
NASA facts, 1193, 6350, 9444, 12278, 13720–721, 17888
NASA/MOTS optical observations of ANNA 1B satellite, 4923
NASA 1965 summer conference on lunar exploration and science, 2371
NASA University Program Review Conference, proceedings, 1197
NASA's scientific and technical information system, how to use, 7720
Nimbus spacecraft, design, integration, and test scheduling aspects, GAO review, 17714
press releases, 3389
procurement—
annual report, 1965, 1175
directive, 3231
regulations, 3232, 6351
publications, educational, list, 10971
scientific and technical reports for 1965, selected listings, 12290
scientific satellites, telemetry processing, 13806
semiannual report—
departmental edition, 1287, 9550, 17933
document edition, 467, 8503, 17173
short-term frequency stability, IEEE–NASA symposium on definition and measurement, Nov. 23–24, 1964, proceedings, 1196
SP series, 1194–1203, 2371–75, 4833–37, 6352–62, 7752–58, 9445–51, 10975–983, 12279–291, 13722–728, 15079–91, 16619–622, 17889–891
spring 1966, list, 7758
National Aeronautics and Space Administration—Continued
Space Science Board, space science and applications programs, 12378
special publications, spring 1966 list, 7758
Surveyor Project, development of certain scientific instrument, GAO review, 10626
tech briefs, 1204–37, 2376–2403, 4838–91, 6363–6410, 7759–7809, 9452–99, 10984–11045, 12292–331, 13729–800, 15092–129, 16623–646, 17892–909
indexes, 6356, 15083
technical memorandums, 1238–40, 2404, 4892–95, 7810, 9500–1, 15130, 16647, 17910
technical notes, 1241–80, 2405–37, 4896–4982, 6411–70, 7811–95, 9502–43, 11046–79, 12332–369, 13801–846, 15313–201, 16648–707, 17911–931
technical reports, 2438, 4983–86, 6471–72, 7896–98, 9544, 11080–81, 12370–373, 13847–848, 15202, 16708–709, 17932
technical translations, 1281–86, 2439–48, 4987–5001, 6473–74, 7899–7902, 9545–48, 11082–83, 12374–376, 13849–850, 15203, 16710
Technology Utilization Division, publications selected listing, 9549
technology utilization program, 7903
National Aeronautics and Space Council, appropriations, 1967, hearings, 8651, 13193
National Agricultural Library:
agricultural/biological subject category list, 7905
appropriations, 1967, hearings, 8648, 11787
Chinese agriculture prior to 1949, publications, list, 17935
library list (series), 11086, 15204–205, 17934–935
National Air and Space Museum:
name, construct, etc.—
law, 12834
report, 13135
National Air and Space Museum Board, establishment, law, 12834
National Air Museum:
change name, etc.—
law, 12834
report, 13135
National Airlines, Inc., emergency board report, 13284
National apprenticeship program, 15500
National Archives and Records Service:
activities, report, 1757
age and citizenship records, 7906
microfilm publications, list, 7907
publications, lists, 1289, 13853
National Association of Letter Carriers, AFL–CIO, agreement with Post Office Department, 16779
National Association of Post Office and General Services Maintenance Employees, agreement with Post Office Department, 16779
National Association of Post Office Mail Handlers, Watchmen, Messengers, and Group Leaders, AFL–CIO, agreement with Post Office Department, 16779
National Association of Special Delivery Messengers, AFL–CIO, agreement with Post Office Department, 16779
National banking review, journal of policy and practice, 3233
National banks:
administrator, report, 1964—
departmental edition, 1781
document edition, 1794
National Brucellosis Committee, 1965 proceedings, 14
National Bureau of Standards:
applied mathematics series, 7908
crystal growth and characterization, research, 16716

National Bureau of Standards—Continued
Electrochemical Analysis Section, Analytical Chemistry Division, progress report, 16717
handbooks, 1291, 5004–5, 7910–11
information and data centers, services available, 1292
journal of research, 3100–3, 16713, 17937–938
Library, periodicals and serials received, 12384
measure for progress, history, 13858
measurement philosophy of pilot program for mass calibration, 11097
Microchemical Analysis Section, Analytical Chemical Division, summary of activities, 16719
miscellaneous publications, 1293–94, 5006–7, 7913–16, 9552, 11090–91, 12383–384, 13858, 16714, 17939
monographs, 2451, 5008, 7917, 12385, 15206–207
national standard reference data series, 11092, 13859, 17940
national standard reference data system, status report, 11098
physical constants recommended by NAS–NRS, adopted by NBS, 5006
publications newsletter, 3257
reference data system, information handling, 12387
report, 1965 fiscal year, 12386
research and development, review of Government reports, 1295–96, 6476, 7918, 11093–95, 15208
Spectrochemical Analysis Section, activities, annual report, 16718
standard frequency and time services provided by radio stations WWV, WWVH, WWVB, and WWVL, 9552
standard reference materials, 1293–94, 16714
catalog and price list, quarterly insert sheets, 11090
homogeneity characterization of spectrometric standards for cartridge brass and low-alloy steel, 5007
technical highlights, 12386
technical information service, regional distribution of Government, R & D information, 2453
technical news bulletin, 3573
technical notes, 1297–1300, 2454–55, 5010–19, 6477–80, 7919–22, 9553–56, 11096–100, 12387, 13860–868, 15209–211, 16715–720, 17941–945
technical publications, 13869
National Cancer Institute:
journal, 3099
monographs, 5030, 6486, 7931, 15289
National Capital, *see* Capital of United States.
National Capital Housing Authority, appropriations, 1967, hearings, 8651, 13193
National Capital Open Space Program:
law of open space, 1302
planning report, 17946
technical report, 1302
National Capital Planning Commission:
appropriations, 1967—
hearings, 7113
law, 10086
reports, 8592, 10281
National Capital Regional Planning Council:
abolish—
hearing, 14425
message from the President, 12858
report, 15918
regional development guide, 15213
National Capital Transportation Agency:
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10160, 10281
National Capital Transportation Agency—Continued
transfer functions—
hearings, 15983
message from the President, 15783
reports, 15891, 16107
National cemeteries:
data, 11686
national policy on provision of grave sites for veterans, etc., hearings, 13062
National Center for Health Statistics:
life tables, 1959–61, data (series), 18008–58
training program for college graduates majoring in mathematics, statistics, or social sciences, 8003
National Citizens' Commission on International Cooperation:
report of Committee on—
Aviation, 1544
Education and Training, 1545
Health, 1546
Manpower, 1547
Science and Technology, 1548
Technical Cooperation and Investment, 1549
Urban Development, 13022
Youth Activities, 1550
National Citizens Committee, bulletin (periodical), 3234
National Clearinghouse for Mental Health Information, international bibliography on crime and delinquency (periodical), 3074
National Clearinghouse for Poison Control Centers, bulletins, 3235
National Collegiate Athletic Association, NCAA–AAU dispute, hearings, 1933
National Commission on Food Marketing:
appropriations, 1966—
law, 418
reports, 498, 13870
technical study series, 13871, 15215–218, 16722–733, 17947–949
National Commission on Hazardous Household Products, create, report, 16121
National Commission on Older Workers, establish, hearings, 13029
National Commission on Reform of Federal Criminal Laws, establish, report, 15883
National Committee on Vital and Health Statistics, *see* United States National Committee on Vital and Health Statistics.
National Community Senior Service Corps, provide, hearings, 17589
National Conference of Fruit and Vegetable Bargaining Cooperatives, 9th proceedings, 4353
National Conference on Education of the Disadvantaged, proceedings, 13275
National Conference on Peaceful Uses of Space, 5th, proceedings, 13723
National Conference on Weights and Measures:
organization and procedure, 5009
report, 7914
National Council for Scientific Research, Rumania, law on establishment, organization, and functions, 6225
National Council of Field Labor Lodges, agreement with Labor Department, 17798
National Council on Marine Resources and Engineering Development, establish, report, 10166
National Cultural Center, *see* John F. Kennedy Center for Performing Arts.
National Data Center, establish, proposal, hearings, 14422
National debt, *see* Public debt.
National defense:
agreement with—
Canada, 5173, 9725, 9727
China, 14032
Federal Republic of Germany, 2588, 6651

National defense—Continued
agreement with—continued
Paraguay, 15359
Saudi Arabia, 5158
Air Force aerospace capabilities, 101
airline strike impact on defense posture, hearing, 14411
application of statistics to resource management program (paper), 657
ASCS activities, 6729
code of Federal regulations, 7401–2, 8913–14, 10494, 11934, 11938–940
defense industry bulletin (periodical), 2644
defense logistics management training catalog, change, 8796
education act of 1958—
graduate fellowships, 1966–67, graduate programs, 4312
language development program, research completed, etc., list, 1979
NDEA institutes for advanced study, summer 1966 and during 1966–67, 5884A
student loan program, college-work-study program and list of participating institutions, 1965–66, 7316
title 3—
improvement of instruction through NDEA, 5876, 11874
non-profit private schools, loans for equipment, 4309
title 11, institutes under, preparing proposals, manual, 5877
implications of reduced defense demand for electronics industry, 110
measuring effectiveness of damage systems criteria (paper), 658
merchant marine in national defense, policy and program, 4003
mobilization, report, 4164
PARM, introduction to post-attack recovery planning system, 659
preparedness program, investigation, hearings, 11791
procurement, priorities and allocations system to support industrial needs (remarks), 15655
publications, price list, 16789
reduced defense spending, community adjustment, 14207
role of NREC in emergency preparedness (paper), 660
United States policies, 14380
print as House document, report, 10208
world-wide defense expenditures, and economic data, 8227
see also Civilian defense—National security.
National defense education act, *see* Education.
National economy, *see* Economic conditions.
National electric rate books, 703–724, 2021–23, 3236, 4383, 10480–482, 11928–929, 13324–326, 16274–276, 17656–659
National Elk Refuge, mammals, list, 4418
National emergency standby regulations and instructions, personnel and manpower, FPM supplement, 17041
National Endowment for Humanities, chairman, nomination of Henry Allen Moe, hearing, 7229
National Exhibition of Prints held at Library of Congress, catalog, 9343
National Export Expansion Council:
reports—
Action Committee on Export Financing, 7003
Action Committee on Ocean Transportation and Freight Rates in Relation to Export Expansion, 7005
Action Committee on Taxation, 7013
National Farm Safety Week, July 24–30, 1966, 11364
National Federation of Post Office Motor Vehicle Employees, AFL–CIO, agreement with Post Office Department, 16779
National Flag Week:
designate—
law, 11552
report, 8607
National Foreign Policy Conference for Educators, education for world responsibility, excerpts from addresses, 16855
National Forest Reservation Commission, report, 1965, 4159
National forests:
America's playgrounds—
camping facilities, 8153
skiing, 3762
areas, June 30, 1965, 10559
code of Federal regulations, 10505
facts, 10560
fire report, 2056
land exchanges, cash equalization, hearing, 11640
map of United States showing national forests, 13651
announcement and order form, 17999
Michigan and Wisconsin, Scleroderris canker, 13370
recreation, use estimate on complex of developed sites, 16332
reforestation and stand improvement projects, economic evaluation, 9813
stumpage prices for sawtimber sold (periodical), 3545
summer-home sites, adjustments in fees, GAO report, 4497
timber measuring in Pacific Northwest, GAO report, 7476
timber sale accomplishments, 14697
work of Uncle Sam's forest rangers, 1582
see also names of forests.
National Foundation on Arts and Humanities:
act of 1965—
amend, hearings, 17371
summary, 4537
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10160, 10281
financial assistance for strengthening instruction in elementary and secondary schools, 8843
questions and answers, 1855, 1951
National Gallery of Art:
appropriations, 1967—
hearings, 7113
report, 10160
National Guard:
airlift of personnel and equipment, operations pamphlet, 1306
Army—
field training, administrative instructions, 7925, 11102
personnel accounting, reports, change, 2456
register, 13873
technician program, job descriptions, pamphlet, 11103
technicians, manning criteria, 5023, 7926, 12391
U.S. property and fiscal officer, duties and responsibilities, NGB pamphlet, 5021, 7924
competitive marksmanship, training program, 1304, 12388
service practice on-site air defense units, 1305
technicians, clarify status—
hearings, 15962
report, 17225
trophies—
Eisenhower trophy to outstanding unit of company size, announcement of winners, pamphlet, 5022, 17952
indoor rifle and pistol matches, postal, announcement of winners, pamphlet, 17951
National Guard trophy, Pershing trophy, National Guard (State) trophy, announcement of winners, 12389

National Guard Association of United States, trophy, announcement of winners, 12389
National Guard Bureau, pamphlets, 1304–6, 2456, 5021–23, 7924–26, 11101–103, 12388–391, 17950–952
National health survey, vital and health statistics, 1438–40, 2542–44, 5120–22, 6587–89, 8005, 9632–33, 11199, 12488–489, 14001, 15306–310, 18080
National Heart Institute:
research grants—
comparative, veterinary, and primate cardiovascular research, 5026
heart disease and the psyche, 12472
rheumatic fever and rheumatic heart disease, 18076
National Highway Safety Advisory Committee:
establish—
law, 15742
reports, 12946, 12993
National Highway Safety Agency:
establish—
law, 15742
reports, 12946, 12993
National Highway Safety Bureau, reestablish, report, 17291
National housing act, *see* Housing—Loans.
National Institute of Arthritis and Metabolic Diseases, artificial kidney-chronic uremia research and development program, opportunities for participation, 13980
National Institute of Dental Research, brief review of research studies, 5031
National Institute of General Medical Sciences:
biomedical research papers, 1964–65—
biochemical and biophysical sciences, summaries, 6487
biological sciences, summaries, 6488
medical sciences, summaries, 5032
National Institute of Mental Health:
hospital improvement projects, 11104
mental health manpower, current statistical and activities reports, 1308, 11105, 12476
mental health of children, child program, 7930
mental health project grants—
completed, 6482
current, 6483
research grant program, 1964, descriptive data sourcebook, 11111
student research stipend program in social work, survey, 15290
training grants program, general information, 9561
National Institute of Neurological Diseases and Blindness:
monographs, 6489, 11109, 13978
NINDB neurological information network, 18063
progress, summary, 1312, 18072
National Institutes of Health:
almanac, 1310, 15291
appropriations, 1967, hearings, 8650
associate training programs, medical and biological sciences, 5024
career in administration, 15273
health scientist administrators and grants associates, examination announcements, 8402, 9995
library, periodicals currently received, 9559
library translations index, 1965 supplement, 13977
NIH obligations to institutions of higher education, 12477–478
programs, work, etc., 11108
research grants and awards, 1965, index, 13991
research methods and instrumentation, developments, symposium, 16810
research profiles, 1312–19, 2461, 5034, 15301
National Institutes of Health—Continued
resources for medical research, reports, 5035, 11112, 13992
scientific directory and bibliography, 12481
staff fellowship program, 16804
standard animal care equipment, 16805
National Institutes of Health Research Contracts and Grants, Secretary's Advisory Committee on Management of, *see* Secretary's Advisory Committee on Management of National Institutes of Health Research Contracts and Grants.
National labor relations act, *see* Industrial relations.
National Labor Relations Board:
appropriations, 1967—
hearings, 8650, 14472
reports, 8626, 16151
case developments, quarterly report, 3445
decisions and orders, 5037, 11116–117, 12393, 16734, 17953
decisions, digest, 9563
election reports, 3229
policy, purpose and philosophy of NLRB, as revealed in decision trends (remarks), 1321
press releases, 3390
report, 12392
statistical summary, quarterly, 3230
weekly summary of cases, 3701
National Library of Medicine:
bibliography of medical reviews, 7934
catalog, biweekly listing, 5038
notes for medical catalogers (periodical), 3277
National Mediation Board:
appropriations, 1967—
hearings, 8650, 14472
reports, 8626, 16151
report, 7936
National monuments and memorials:
code of Federal regulations, 10505
guide for handicapped tourists, 17805
map of United States showing national monuments, 13651
publications, price list, 17994
see also names of monuments or memorials.
National Motor Vehicle Safety Advisory Council:
create—
law, 15741
reports, 12975, 14391
National Museum:
act of 1965, report, 10216
bulletins, 2465, 5039–40, 7937–38, 9565–66, 12396–397
proceedings, 1324–26, 2466–69, 5041–44, 6495–98, 7939–40, 9567
title page, etc., v. 116, 2470
title page, etc., v. 117, 16735
National Observances and Holidays Commission, establish, report, 17243
National Oceanographic Data Center:
announcement, 3238
archived data inventory, 7953
newsletter, 3239
publications, 6519–24, 7953, 9577–85, 15231–232
quarterly accessions, computer produced indexes, 13892
National Park Service:
appropriations, 1967, hearings, 7113
archeological research service, 13875
areas administered by—
and related properties, 13876
visitor accommodations furnished by concessioners, 16738
fauna series, 13880
5-cent commemorative postage stamp, 13923
National Capital region, 1966 activities, 7941
natural history handbook series, 5047
press releases, 3391

National parks:
airports, authorization, increase—
hearings, 17385
reports, 16095, 17255
areas administered by National Park Service, 13876
camping facilities, 12398
code of Federal regulations, 10505
fishing, general information, 16736
guide for handicapped tourists, 17805
map of United States showing national parks and monuments, 13651
announcement and order form, 17995
public use, statistical report, monthly, 3431
publications, price list, 17994
visitor accommodations furnished by concessioners, 16738
see also names of parks.
National Planning Commission, appropriations, 1967, hearings, 8763
National poultry improvement plan, *see* Poultry.
National power and prestige in space, 13851
National Railroad Adjustment Board:
appropriations, 1967, hearings, 8650
awards, 2474, 6517, 7949, 11133–136, 13889, 15226–228, 16739, 17963
report, 7936
National Reactor Testing Station, controlled environmental radioiodine tests, 1965 progress report, 8284
National Referral Center for Science and Technology, 6278
National Resource Evaluation Center:
role of NREC in emergency preparedness (paper), 660
technical report, 659
National Rifle Association, indoor rifle tournament, announcements of winners, 11101, 17950
National Rural Letter Carriers Association, agreement with Post Office Department, 16779
National School Safety Patrol Week:
designate—
law, 10063
report, 8741
National Science Foundation:
act of 1950, amend—
hearings, 10268
report, 15849
administer sea grant colleges and programs act—
hearings, 11825
reports, 15863, 16081
appropriations, 1967, hearings, 8651, 13193
basic research review, hearings, 1866
current research and development in scientific documentation, bibliography, 6597, 15320
grants and awards, 1965, 2475
its present and future—
hearing, 5708
reports, 4091, 4145, 11597
reprint House report 1236, report, 10205
operations, first 15 years, review—
reports, 4088, 12849
reprint House report 1219, report, 10204
press releases, 3392
programs for dissemination of scientific information, 2476
report, 1965—
departmental edition, 5049
document edition, 4071
reviews of data on science resources, 2477, 7951, 9575
scientific documentation, information, requirements, etc., price list, 7912
National security:
air traffic control, FAA regulations, 5919
aircraft titles and security documents, recording, Federal aviation regulations, change, 7352
National security—Continued
behavioral sciences and national security reports, 513, 4090
disaster preparedness, orientation manual for pharmacists, 5107
don't walk away from security! poster, 13253
Government operations, investigation, authorization, report, 4184
internal security act, etc., hearings, 580
internal security act of 1950, amend, report, 17352
internal security and subversion, principal State laws and cases, study, 581
internal security laws, etc., administration, investigation—
authorization, report, 4192
hearings, 16190
management, correspondence course offered by Industrial College of Armed Forces, 2144, 4586, 13445
management review, 14786
procurement and utilization of security covers for nuclear weapons, GAO review, 16349
safeguarding classified information, industrial security manual, 13254
security violations don't just happen, they are caused!, poster, 14523
State Department security, administration, investigation, hearings, 586, 4229, 7223–24, 8781–82, 10357, 11820–821, 17588
where our Nation stands at home and abroad, Republican report, 89th Congress, 2d session, 17405
see also Civilian defense.
National Security Seminars:
information guide for conduct of, 13444
presentation outlines and reading list, 2145, 14787
prospectus, 13446
National service life insurance, *see* Life insurance.
National Severe Storms Laboratory:
report (series), 1536–37, 11317, 12563, 15421
technical notes, 1536–37
National Shipping Authority, current regulations, index, 12231
National Ski Week:
authorize—
law, 5577
report, 4166
National Society of Daughters of American Revolution:
report, annual, 13064
print as Senate document, report, 7197
National standard reference data series, 11092, 13859, 17940
National standard reference data system:
extend service—
hearings, 15989
report, 12997
status report, 11098
National survival, *see* Survival.
National Teacher Corps:
appropriations, 1966, supplemental, proposal, 5608
establish, law, 430
guidelines, 14555
new dimension in teaching, 13278
to reach and teach children of poverty, 8849, 11876
National Technical Institute for the Deaf:
establish, report, 17459
general information, 7497
report, 10654
National Traffic Safety Advisory Committee, establish, report, 16078
National Traffic Safety Agency:
establish—
law, 15741
reports, 12975, 14391

National Transportation Safety Board:
establish—
hearings, 10246, 10346, 11809, 13040, 13212
reports, 11634, 12973, 16158, 17291
National Transportation Week, program (remarks), 10041
National turkey improvement plan, *see* Turkeys.
National UNICEF Day, designate, report, 16083
National union catalog:
Library of Congress, 3242
register of additional locations, 2308, 9346, 14986
symbols used, 9348
National Visitor Center:
establish—
hearings, 8789, 13056
message from the President, 5614
reports, 10287, 15837, 17548
National Water Commission:
establish—
hearings, 11811
message from the President, 5612
reports, 11745, 14392
National Wilderness Preservation System, annual report, 5609
National Zoological Park:
concessions, negotiate cooperative agreements granting reports, 17264, 17489
reorganization, message from the President, 11615
Nationality:
code of Federal regulations, 10485
immigration and nationality act amdts.—
explanation in question and answer form, 520
hearings, 14430, 14496
print additional copies of hearings on H.R. 2580, reports, 500, 562
law, summary, 522
report, 12972
text, 10254
laws, administrative decisions, 4542
Nations, *see* Foreign countries.
NATO, *see* North Atlantic Treaty Organization.
Natural Beauty, White House Conference on, *see* White House Conference on Natural Beauty.
Natural Bridges National Monument, general information, 1333
Natural gas, *see* Gas.
Natural history, handbook series, 5047
Natural History Museum, Smithsonian Institution, guide map, 16826
Natural resources:
Agriculture Department, role in resource conservation, 15460
Bear Creek watershed area, 2602
beautification efforts of Federal Government, report, 2517
California, 7509
century of change (remarks), 1397
changing conservation climate, Forest Service, I & E approaches to organizational and public needs, 5972
Clinch-Powell Valley, 2603
conservation—
conservation revolution (address), 5282
development projects RC and D, 1476
forests (statement), 1608
living resources of high seas, 12527
new concept of soil and water conservation movement (address), 14123
New England (remarks), 2113
outdoor recreation (remarks), 6558
publications, list, 1403
teaching in elementary schools, outline, 14147
yearbook, 6056
conserve our resources (remarks), 1604
conserving our renewable resources wisely in city and countryside (remarks), 9838
Natural resources—Continued
coordinated planning of rural resources for social and economic growth (speech), 9839
Elk River watershed area, 2606
Illinois timber resources, 7463
judgment of history (remarks), 6557
Land Management Bureau careers in resource management, forestry, administration, minerals, etc., 12227
Lee, Scott, and Wise Counties, Va., 2611
Lower Hiwassee Valley, 2608
management, Project EROS, program to utilize space-acquired data, 16358
Neighborhood Youth Corps, better communities through conservation, 16516
plant quarantines, protection for America's resources, 6776
population challenge, what it means to America, conservation yearbook, 6056
preserving our natural heritage, message from the President, 5612
recording esthetic and biologic changes with photographs, 2071
resource bulletins, 2079–80, 4477–80, 5998–99, 7463, 10611–612, 11995–996, 14717–720
resource publication (series), 2045, 7439–40, 10537, 11977, 14674, 16311–312, 17677
Sequatchie Valley, 2610
Texas, 848
Upper Duck River Valley, 2612
Upper French Broad area—
basic data supplement, 2605
opportunities, resources, regional economy, 2604
Upper Hiwassee Valley, 2613
urgent problems in conservation, USSR study, 6132
user charges, study, 3867
Yellow Creek watershed area, 2614
Natural Resources Mission to Germany, special report to the President, 12046
Natural science, *see* Science.
Naturalization:
becoming a citizen series, 2110, 4543, 6051
teacher's guide, 4544
candidates—
citizenship teachers aids, resource unit, 6050
English, home and community life, Federal textbook on citizenship—
home study course for helper, 7502
home study course for student, 7503
our Constitution and Government, Federal textbook on citizenship, 6052, 7504
investigation—
authorization, report, 4191
report on findings, etc., 5781
publications, price list, 1407
requirements and general information, 13422
see also Citizenship—Nationality.
Nauchno-tekhnicheskaya informatsiya (periodical):
articles, 6114
Naughton, John:
aeromedical certification problems, cardiovascular responses to exercise following myocardial infarction, 16982
cardiac patients, physical-conditioning program, 16983
Naumann, Robert J., Pegasus satellite measurements of meteoroid penetration, 4892
Nauru Island, *see* Australia.
Nautical almanacs, *see* Almanacs.
Nautical charts, *see* Maps and charts.
Navaho Indians, *see* Navajo Indians.
Navajo County, Ariz., Chilchinbito and Kayenta quadrangles, geology, 816

Navajo Indians:
major sources of information on population, analysis—
departmental edition, 15498
document edition, 15779A
management of tribal funds, need for effective guidance, GAO report, 11999
Navajo National Monument, general information, 13884
Naval Academy, Annapolis:
candidates for appointment, selection, amend U.S. Code, law, 17137
reports, 12937, 16164
dairy farm, disposal, proposal, report, 17362
dairy farm operation, Navy Dept., GAO report, 7471
instruction, persons from countries friendly to U.S., permit, report, 17508
John Paul Jones, commemoration at Annapolis, Apr. 24, 1906, 15240
register, 13891
Naval Air Test Center, technical report, 7975
Naval art and science:
antimechanized operations, 2309
basic military requirements, 6526
Library of Congress, classification, 6277
logistic support of Navy, 9589
naval research logistics quarterly, 3247
Naval aviation, *see* Aeronautics.
Naval aviation news, 3246
Naval bases, Subic, Philippines, banking facilities, agreement, 11264
Naval courts, *see* Courts martial and courts of inquiry.
Naval education:
basic electronics, trainees guide for fire control technician training, 5061
basic military requirements, 6526
communications, yeomen, class A, trainee's guide, 2489
electronics, instructor's guide for fire control technician training, 17974
fire control technician training concerning gyros—
instructor's guide, 6532
trainee's guide, 6533
naval enlisted scientific education program, status, report, 9590
Naval reserve team training guide, 13904
naval training bulletin, 3251
Navy training courses, 1341, 1343–44, 1347, 2487, 6526, 6529, 6531, 7963, 7966–68, 9591, 11147–148, 12413–415, 12420, 13906–907, 13909, 15241–243
programmed-instruction maintenance course for radio transmitting set—
AN/WRT–1, 13908
AN/WRT–2, 12418
training facilities, Navy design manual, changes, 1569
training publications for advancement in rating, 9592
Naval establishments, *see* Armed Forces.
Naval gunfire support, 9350
Naval history:
bibliography, 7962
keeping the peace, 16749
Naval installations, *see* Installations (military).
Naval Material Command:
officers, perquisites of office, retaining rank, pay, and retirement privileges—
hearing, 17364
report, 17267
Naval Material Office, proposed technical approaches, guide for preparation, 13912
Naval Medical Research Institute, record of accomplishments for 1st 20 years, 13657
Naval Medical Research Unit, agreement with Ethiopia, 8075
Naval Observatory, publications (series), 6518
Naval Oceanographic Office:
publications series, 1337–39, 2479–85, 5053–58, 7954–61, 11139–146, 12401–409, 13893–899, 15233–239, 16744–748, 17965–970
report, 15230
research, development, testing, and evaluation, 17971
special publication SP series, 12410–411, 13900, 15239
Naval officers, *see* Navy.
Naval Ordnance Laboratory, White Oak, Md., technical report, 2502
Naval orientation, 6534
Naval Personnel Bureau:
career publication, 2673
training manuals and correspondence courses, list, 9588
Naval petroleum reserves, no. 4 and adjacent areas, northern Alaska, 1944–53 exploration (series), 12017
Naval Postgraduate School, Monterey:
salary of academic dean, repeal limitation—
law, 15719
report, 13181
Naval Research Laboratory:
bibliography series, 1349
cyclotron program, progress report, 13911
high level radiation laboratory at NRL, design, construction, and equipment, 1353
progress report, monthly, 3466
report series, 1351–84, 2491–2500, 6538–55, 7974, 9595–97, 12422–442, 13911, 15252, 16754–771, 17977
satellite position display, operation and performance, 2491
Naval research logistics quarterly, 3247
Naval Research Office:
ACR series, 7969, 16753
technical reports, 5070–76, 9593–94
Naval research reviews (periodical), 3248
Naval Reserve:
captains, authority for promotions—
law, 397
reports, 548, 1842
chaplains handbook, 1346
Dental Companies, curriculum, 13902
ensign medical program, 13658
officers, register, 7965
radioman 3d class, curriculum for training program, 13903
team training guide, 13904
Naval Reserve Officers Training Corps, aviation and amphibious cruise manual, 11151
Naval reservist (periodical), 3249
Naval science, *see* Naval art and science.
Naval Ship Systems Command, technical news (periodical), 9598
Naval ships, *see* Ships.
Naval space surveillance system, optical calibration analysis, 16761
Naval stores:
act, repeal, report, 17270
demand and price situation, 1965, 57
report—
annual, 11284
monthly, 3250
Naval Submarine Medical Center, reports, 6281–85, 13659–667, 14991–996
Naval training, *see* Naval education.
Naval Training Device Center, Port Washington, technical reports, 1350, 2490, 5066–69, 6536–37, 7970–73, 1154–155, 12421, 13910, 15250–251
Naval vessels, *see* Nuclear powered ships—Ships—Warships.
Naval Weapons Bureau:
directory, 2715
employment opportunities, 2883
technical inspection manual, 5077
Navarro, Mario P., relief, 15834, 17455
Navesink River, zooplankton communities, 7444

Navigable waters, *see* Navigation.
Navigation:
aids—
Coast Guard list—
Great Lakes, 8405
Mississippi River system, 8406
Pacific Coast and Pacific Islands, 14315
navy design manual, changes, 1569
regulations, amendment, 10006
aids to navigation manual, amdt., 3995
basic seamanship, Coast Guard Auxiliary course, public education, bibliography, 12768
celestial-inertial concept, optimal, for low-thrust interplanetary vehicles, analysis, 10938
Columbia River, channel improvement at Bonneville Dam, hydraulic model investigations, 11890
compendium, 16751
conditions at Locks and Dam no. 4, Monongahela River, 16250
Cooper River, improvement, 13298
experiment utilizing Relay II satellite, 7743
laws, collection of fees for services, hearing, 10333
measurements, television capabilities for making, 7875
midcourse, using optimal filtering and linear prediction, effect of reduced computer precision, 7890
Mississippi River, 10933
navigable waters—
clarify responsibility for marking obstructions, hearings, 8674
code of Federal regulations, 11941
navigate safely, ESSA marine services, 13300
Navy satellite system, 16617
notice to mariners, 5059
Atlantic and Mediterranean, 3279
Great Lakes and tributary waters, 3280
Pacific and Indian Oceans, 3729
opening upper Mississippi River to year-round navigation (statement), 1104
optical-inertial space sextant for advanced space navigation system, 10964
projects, prohibit certain fees—
hearings, 10263
report, 10154
radio aids—
Atlantic and Mediterranean area, changes, 2484, 11146, 15238
Pacific and Indian Oceans area, changes, 1339, 9585, 13898
ship's position at sea determined from artificial satellites of earth, USSR study, 923
space—
integrating orbital equations of motion, 16687
1958–64, significant achievements, 7753
simplified calculation of transition matrices for optimal navigation, 11068
see also Air navigation—Commerce.
Navigation locks, *see* Locks (hydraulic engineering).
Navigator (interplanetary) missions, electric propulsion study, 15066
Navigator (periodical), 3252.
NAVTRADEVCEN, *see* Naval Training Device Center, Port Washington.
Navy:
ammunition, status, hearings, 10324
civil engineer (periodical), 3253
dental administration—
manual, change, 15245
planning, construction, and maintenance of naval dental facilities, 6530
enlisted personnel classifications manual, 7964
enlisted scientific education program, status report, 9590
Navy—Continued
ensign medical program, 13658
film catalog, 11159
firefighting exercises manual, 1345
flight surgeon, who, what, why, where, when, 4751
lawyer, rewarding career, 9189
logistic support, 9589
management review (periodical), 3254
marine climatic atlas of world, Antarctic, 9600
medicine, statistics, quarterly, 3540
messes, ashore, manual, changes, 15247
occupational handbook, manual for civilian guidance counselors, etc., 16752
officers—
career planning information for surface junior officers, 1342
classification manual, cross reference index, 5063
limited duty, qualification manual, 11150
line, performing supply duties, guide, 11149
professional reading guide, 16750
register—
departmental edition, 11152
document edition, 10099
personnel, household effects, moving information, 11155A
pesticide, safe and proper handling, preventive medicine manual, 17830
preventive medicine manual, 17830
prime contractors, selling to, 1387
procurement directives, revisions, 3255, 11160
public affairs regulations, 17978
publications, price list, 17996
recipe service, 5182
satellite navigation system, 16617
ship's serviceman 3 & 2, Navy training course, 12420
Supervisory Chaplains Conference, proceedings, 12417
training publication for advancement in rating, 9592
see also Pay, allowances, etc.—Retired officers, etc.
Navy Band, former members, relief of estates, 12877, 16047, 17087
Navy Department:
appropriations, 1967, military construction, hearings, 11642
Assistant Secretary, nomination of—
Charles F. Baird, hearings, 7204
Robert A. Frosch, hearing, 11790
community housing, available, need for current evaluation prior to construction of military housing, GAO report, 808
contract law, supp., 12444
diving manual, change, 1455
forms management guide, 12443, 16772
management control of reusable projectile fuze covers, etc., possible savings, GAO report, 4501
naval nuclear propulsion program, hearing, 8483
public information for commanders, etc., guidelines (periodical), 2858
publications and printing manual, standards and guidelines, 1386
reorganization plan, 7066
safety review (periodical), 3486
transportation of privately owned vehicles on foreign-flag vessels, Military Sea Transportation Service, GAO report, 9004
variable timing fuzes, savings through direct procurement of components, GAO report, 6018
Navy-Merchant Marine Monument, wreath-laying ceremony, Columbia Island (remarks), 10901
Navy Supply Corps, newsletter, 3256
Navy training courses, *see* Naval education.
NBS, *see* National Bureau of Standards.

NCAA, *see* National Collegiate Athletic Association.
NCC, *see* National Citizens Committee.
NDEA, *see* Education.
Neal, H. L., soil survey, Clarke County, Miss., 6616
Neal, Luther, jr., pressure, heat transfer, and skin friction on sharp and blunt flat plates, 7847
Nealon, Robert J.:
  dyeing and finishing textiles, 5440
  floor covering mills, woven carpets and rugs, etc., 1703
  miscellaneous fabricated textile products, 6896
  miscellaneous textile goods, 3888
  weaving mills, 6891
  yarn and thread mills, census of manufactures, 1963, industry statistics, 6892
Near-drowning, pathophysiology and treatment, 14996
Near East, *see* East (Near East).
Nearctic region, Trichoptera in Museum of Comparative Zoology, notes, 6497
Nebraska:
  census of manufactures, 1963, area statistics, 15570
  Cherry Soil and Water Conservation District, grassland management in Sand Hill (colored poster), 9686
  climatological data, 2751
  county business patterns, 231
  electric rate book, 714
  life tables, 18035
  Little Blue River basin, fluvial sediment and chemical quality of water, 17728
  loess-mantled Great Plains, Medicine Creek drainage basin, erosion and deposition, 17717
  manufacturing plants, location by county, industry, and employment size, 1963 census, 14257
  mineral industry, minerals yearbook chapter, 1135
  Mississippi River and tributaries, fishery products wholesale dealers, list, 774
  new Pliocene stork, 11223
  precipitation data, hourly, 3045
  soil survey laboratory data and descriptions, Nebraska, 18104
  Upper Niobrara River compact, approving, report, 16092
Nebraska-Iowa Dressed Beef Company, accident, 6091
Neck, cancer, 5105
Nectarines, production, use, value, 1964–65 by States, 15379
Need, John L., optimum target orientation in nuclear reaction experiments, 1278
Needham, Robert G., effects of toxaphene on plankton and aquatic invertebrates in North Dakota lakes, 11977
Needle cast, *see* Leaf cast.
Needles (hypodermic), *see* Hypodermic needles.
Neely, D. Morrison, per-unit capital retains, tax treatment by cooperatives and patrons, 4352
Neely, William W., wild ducks on farmland in South, 8146
Neesham, Phoebe T., relief, 1894
Negotiated contracts, *see* Government contracts.
Negroes:
  American Negro in the future (address), 10011
  children, quest for equality, story of how 6 institutions opened their doors, 14282
  directory of colleges and universities, 6250
  District of Columbia public schools as they relate to war on poverty, task force study, 11650
  economic and social situation, 10875
  future of American Negro (remarks), 4032
  Government and business support of Negro colleges (address), 6993
Negroes—Continued
  in the West—
    consumers, 14983
    social and economic conditions, 10878, 14983
    worker, 10876
  Michigan, employment problems of nonwhite youth, 12748
  Negro—
    in American economy (remarks), 7420
    in international affairs, prospects for future (address), 7643
    marketing information, guide, 16990
  population—
    by county, 1960, and 1950, 6918
    characteristics, 5486
    distribution, 6917
  social power and social change in contemporary America (address), 16854
  troops, employment, U.S. Army in World War II, 13669
  unemployment problem (remarks), 10398
  White House Conference "to Fulfill these Rights"—
    council's report and recommendations, 11322
    report, 15429
    speeches, 12567
  woman at work, gains and problems (address), 1560
  women in population and labor force, 11327
Negros, eastern, sailing directions, 9580
Nehalem River, waterpower resources in basin, 826
Nehmer, Stanley, address, Jan. 26, 1966, 3999
Neiburg, Samuel C., relief, 5730
Neighborhood Youth Corps:
  accomplishment and ultimate purpose (remarks), 9195
  administration, hearings, 8666
  amendments to economic opportunity act—
    hearings, 14498
    print additional copies of House report 1568, report, 13007
    reports, 10185, 12945, 16162, 17333
  builds better communities through conservation, 16516
  facts, 7644
  graduates, information for employers, 2281
  picture story, 2284
  remedial education for NYC enrollees, tips, 12201
  rural community action, program, 16220
  sponsors, financial management requirements, 13588
  story of, 7647
  work supervisor's handbook, 1083
Neighborhoods:
  legal services, new dimensions in law, 16904
  urban renewal rehabilitation, minimum property standards, 16272
Nein, M. E., cryogenic propellant tank pressurant requirements, 6419
Neitzey, Regina M., analysis, etc., State minimum wage laws and orders, 5233
Nelson, Alice F., foreign agriculture, including foreign crops and markets, 2986
Nelson, Arthur E., geology of Florida quadrangle, Puerto Rico, 13399
Nelson, Arthur P.:
  mineral industry of Malagasy, 10915
  mineral industry of Morocco, 7699
Nelson, Charlene M., histologic study of effects of profound hypothermia on spinal cord of dog, 80
Nelson, Howard D., malathion-treated drying trays to protect raisins from insects, 14111
Nelson, Morlan W., water supply outlook and Federal-State-private cooperative snow surveys for Idaho, 3689
Nelson, Robert A., remarks, May 18, 1966, 10042

Nelson, Robert E.:
electrical parameters of precision, coaxial, airdielectric transmission lines, 12385
record of forest plantings in Hawaii, 2079
Nematoid worms, soybean cyst nematode, general information, 11365
Neobrotica, *see* Beetles.
Neodymium trichloride, heat of formation, 1167
Neon, bromine dissociation rates, shock-tube investigation, 13821
Neonatal, *see* Infants.
Nepal, accessions list, Library of Congress American Libraries Book Procurement Center, New Delhi, 9347
Nepal alder, *see* Alder.
Nepheline syenite, minerals yearbook chapter, 15005
Nephelines, glass-crystal transformation and heat of formation, 10922
Nephropathy, concomitant with bile duct diseases in children, diet therapy, USSR study, 1032
Nerves:
cells, autoregulation in cytology and cytochemical studies, USSR articles, 977
dorsal root ganglia, newborn rat, in vitro following gamma irradiation, observations, 3796
simulation of information processing in neurons, USSR study, 2205
sympathetic neuron, submicroscopic structure, effects of radiation, 11380
Nervous system:
central—
changes, employment of cross circulation and heat exchangers to induce deep hypothermia, 3780
electromagnetic and magnetic fields, influence, USSR study, 14823
response to low-level x-irradiation, 7990
child with central nervous system deficit, 5504
childhood disorders, research progress summary, 1318
higher activity, USSR studies, 9157
infectious diseases, progress, summary, 1319
neurological and sensory disease, film guide, 13976
neuropathology and psychiatry, USSR study, 9079
principal diseases, survey of scientific research conducted during 1964, USSR study, 2265
slow, latent, and temperate virus infections, workshop and symposium, 13978
Netherlands:
background notes, 8048
certification of apples and pears for possible transshipment, 12586
certification of fruit entering for possible transshipment, 5272
community mental health services, 5025
double taxation—
convention, agreement, 16865
supplementary convention, protocols, ports, 13087
fight for socialism, 6202
labor conditions, 13640
manpower policy and programs, 16515
maritime matters, private operation of N.S. Savannah, liability agreement, 11261
mineral industry, minerals yearbook chapter, 6302
supplementary income-tax convention, 7174
Nets, *see* Fish nets.
Netterstrom, Ralph W., rigging cargo gear, 14965
Netting, *see* Fish nets.
Networks, compensating, in scientific satellites, wide-range temperature monitoring, new design approach, 16683
Netzeband, F. F., mineral industry of Texas, 2343
Neubauer, W. G., Fresnel method calculation of radiated acoustic field of pistons, 1373
Neuman, Elmer A., ALO standard structure for managerial data, 5382
Neurohumoral mechanisms of reticular formation of brain stem, selections from USSR book, 7606
Neurohumors, problems of neurohumoral regulation in clinical medicine, USSR study, 7570
Neurological diseases, *see* Nervous system.
Neurological Diseases and Blindness, National Institute, *see* National Institute of Neurological Diseases and Blindness.
Neurology, adaptations in mice exposed to chronic 2x gravity field, 93
Neuromuscular disorders:
blocking action of some new oximes, Rumania, 1018
progress in research, summaries, 1315, 15301
Neurons, *see* Nerves.
Neuropathology, *see* Nervous system.
Neuropsychology, bibliography, 1960–65 reviews and books, 13985
Neuschel, Sherman K., aeroradioactivity survey and areal geology of District of Columbia, etc., 9917
Neutron activation analysis, *see* Radioactivation analysis.
Neutron capture cross sections:
boron cross sections as source of discrepancy for capture cross sections in keV region, 11081
sphere transmission experiments, Monte Carlo interpretations, 11080
Neutron diffractometers, *see* Diffractometers.
Neutrons:
activation analysis in scientific crime detection, application, 6852
cross section technology, conference proceedings, 15528
dynamics and control, symposium proceedings, 12672
feasibility study, operation Henre, 14-Mev neutron source, 11421
neutron and gamma dosimetry, 142
neutron and gamma-ray leakage from Ichiban critical assembly, 12671
operations plan, Operation Henre (high energy neutron reactions experiment), 143
pulsed high intensity fission, symposium on sources, proceedings, 5385
thermal flux perturbation by dysprosium-aluminum foils in water and uranyl fluoride-water solutions, 6428
thermalization, integral, Oct. 1, 1963–Sept. 30, 1964, annual summary report, 1677
use of neutron activation analysis in scientific crime detection, summary report, 5390
Nevada:
census of business, selected services, area statistics, errata, 3878
climatological data, 2751
Cortez district, gold geochemical anomaly, 14751
county business patterns, 232
electric rate book, 715
floods of Jan.–Feb. 1963, 10651
life tables, 18036
manufacturing plants, location by county, industry, and employment size, 1963 census, 14260
medical assistance for the aged under social security act, 11905
mineral industries, water requirements and uses, 12234
mineral industry, minerals yearbook chapter, 1136
north central Sierra, broadcast burn in 2d growth clearcuttings, 17686

Nevada—Continued
Pahranagat Valley Soil Conservation District, improved alta fescue pasture and lined irrigation canal (colored poster), 9687
postal map—
northern section, 13927
southern section, 13928
precipitation data, hourly, 3045
southern, water project, amend sec. 6 of act—
law, 12835
reports, 8730, 10178
test site of AEC, allowances to employees, law, 7047
water supply—
fall summary, 16834
outlook and snow surveys, 3691
western, earthquake history, 6982
Nevel, Donald E., time dependent deflection of floating ice sheet, 15510
New Britain, Conn., commodity transportation survey, production area series, 8340
New Brunswick Laboratory, research progress report, 6853
New Caledonia:
mineral industry, minerals yearbook chapter, 6297
population and economy, 12137
New Castle, Pa., Federal loan for poultry, processing plant, hearing, 4117
New Crops Research Branch:
plant material introduced, 8137, 11339–340, 14115
New day for older American, Senior Citizens Month, May 1966, guide to community action, 9617
New energy storage concept uses tapes, 7770
New England:
climatological data, 2751
development, bibliography, 14007
economic conditions, improvement through cooperation (address), 321
fisheries, summary, 1964, 743
growth patterns in employment by county, 5436
manufacturing plants, location by county, industry, and employment size, 1963 census, 14254
mortality of dentists, 18003
natural resources, Federal role in conserving (remarks), 2113
precipitation data, hourly, 3045
small business procurement, 7237
standard metropolitan statistical areas, facts for marketers, 6880
New England Economic Development Region, designation (remarks), 5558, 5562
New England States, *see* New England.
New era (periodical), 3259
New Guinea:
mineral industry, minerals yearbook chapter, 6297
sailing direction, change, 17967
New Hampshire:
coastal and tidal areas, hurricane survey, engineer report—
departmental edition, 669
document edition, 463
county business patterns, 233, 17002
electric rate book, 716
life tables, 18037
manufacturing plants, location by county, industry, and employment size, 1963 census, 14254
on-the-ground demonstration of northern hardwood timber management, 11992
Sullivan County Soil Conservation District, multipurpose pond on former farmland (colored poster), 9688
women, labor laws, summary, 8117
New Haven, Conn.:
area wage survey, metropolitan area, 9318
Chapel Street Library Neighborhood Center, 17623
commodity transportation survey, production area series, 8340
New Hebrides, mineral industry, minerals yearbook chapter, 6297
New Jersey:
allocation of school facility costs to federally assisted urban renewal projects, GAO report, 6002
area measurement report, 15563
Atlantic white-cedar being eliminated by excessive animal damage in South Jersey, 789
census of business, 1963, retail trade, area statistics, 9947
errata, 185
census of business, selected services, area statistics, errata, 3879
climatological data, 2751
commercial egg-producing farms, costs and returns, 621, 14532
county business patterns, 1726, 5468
electric rate book, 717
Hudson River compact—
law, 15772
reports, 15893, 17490
landings, fish and shellfish, 3260
annual summary, 10519
life tables, 18038
manufacturing plants, location by county, industry, and employment size, 1963 census, 14255
Mercer County Soil Conservation District, farm pond, Stony Brook Watershed (colored poster), 9689
mineral industry, minerals yearbook chapter, 1137
northern, desalting for, potentialities and possibilities, engineering study, 16378
postal map, 13936
precipitation data, hourly, 3045
radium cases, epidemiological follow-up, progress report, 9921
southern, site index of yellow-poplar related to soil and topography, 17701
streams, water quality characteristics, 12031
New Jersey Turnpike, motor carrier accident, 9058
New life for the dodo, address, 16238
New London, *see* Coast Guard Academy, New London.
New London, Conn.:
District Court, term to be held:
law, 15737
report, 17481
reduced defense spending, potential impact, 14207
stratigraphic names in area, 12014
New Mexico:
cattle ranches, economic and operational characteristics, 5866
census of manufactures, 1963, area statistics, 15571
climatological data, 2751
county business patterns, 234, 15579
Diamond Creek, Gila trout, ecology, 14679
electric rate book, 718
high plains, water resources, 5266
Indians, general information, 14766
jasperoids of Lake Valley mining district, 4513
labor laws affecting women, summary, 5247
life tables, 18039
manufacturing plants, location by county, industry, and employment size, 1963 census, 14260
medical assistance for the aged, under social security act, 11905
mineral industry—
minerals yearbook chapter, 2336
water requirements and uses, 2319

New Mexico—Continued
nonpegmatitic beryllium occurrences, 15629
northern, crested wheatgrass lambing range, grazing effects, 13367
pinyon-juniper sites, adaptability of forage species, 4452
precipitation data, hourly 3045
San Juan Soil and Water Conservation District, irrigated river bottomland (colored poster), 9690
semiarid area, channel and hillslope processes, 12019
small business procurement, hearings, 7237
snow courses and soil moisture stations, list and location, 8029
water supply outlook and snow surveys, 3688
New Orleans, La.:
aircraft accident, 12736
area wage survey, metropolitan area, 10867
New Orleans, Battle of, commemorating, Chalmette National Historic Park, 15220
New Orleans, Battle of, Sesquicentenial Celebration Commission, *see* Battle of New Orleans Sesquicentennial Celebration Commission.
New product development for economic growth in rural areas, 1595
New water for old, advanced waste treatment research, etc., Lebanon facility, 17670
New York Central RR, accidents, 12078, 12085
New York City:
aircraft accident, 3950
area wage survey, metropolitan area, 14977
commodity transportation survey, production area series, 8341
desalting for, potentialities and possibilities, engineering study, 16378
exchanges, futures trading and open contracts in cotton, wool and wool tops, etc., 3011
facts of poverty (paper), 6271
fresh fruit and vegetable prices, 9840
Mercantile Exchange, futures trading and open contracts in potatoes and rice, 3013
nursing homes, conditions and problems, hearings, 565
Operation Reclaim, for Negro teachers displaced in integrated southern schools, 16235
port, N.Y. and N.J., data on piers, wharves, and docks, 13293
principal electric facilities, map, 7374
Prospect Park of Brooklyn Borough, centennial year greetings, reports, 8565, 11758
New York State:
census of business, 1963—
retail trade, area statistics, 5438, 9048
errata, 188
selected services, area statistics, errata, 6884
climatological data, 2751
county business patterns, 1727
dropout training, summer camp in year-round use, 16236
Dutchess County Soil and Water Conservation District, conservation farm managed for upland game (colored poster), 9691
electric rate book, 13325
Hudson River compact—
law, 15772
reports, 15893, 17490
labor laws affecting women, summary, 6701
landings, fish and shellfish, 3267, 8934
life tables, 18040
New York State—Continued
manufacturing plants, location by county, industry, and employment size, 1963 census, 14255
mineral industry, minerals yearbook chapter, 2337
planning is vital for urban development (address), 8412
postal map—
eastern section, 13937
western section, 13938
precipitation data, hourly, 3045
small business procurement, hearings, 14506
Taconic sequence, new Lower Cambrian trilobite faunule, 12506
women, equal pay, 1965, laws, 5238
New Zealand:
health information for travel, 6579, 16795
lights and fog signals, list changes, 1337, 6522, 9582, 13895
mineral industry, minerals yearbook chapter, 6303
sailing directions, change, 13893
Newark, N.J.:
area wage survey, metropolitan area, 9327
commodity transportation survey, production area series, 8342
high-rise multifamily housing project, approval of mortgage insurance by FHA, GAO report, 6003
Newark Bay:
engineer report—
departmental edition, 17634
document edition, 17169
Newborn, *see* Infants.
Newcomer, E. J., insect pests of deciduous fruits in West, 14130
Newell, H. E., space science and applications programs, report to Space Science Board, 12378
Newfoundland:
general information, 1632
oceanography of Grand Banks region, 14317
Newman, Dorothy K.:
Negroes in U.S., economic and social situation, 10875
Newman, Jerry O., house-framing system for low-cost construction, 15452
Newman, Perry A., direct calculation of specific heats, etc., of arbitrary gas mixtures, 15158
Newport News, Va., area wage survey, metropolitan area, 14974
News digest:
Federal Power Commission, 3268
Securities and Exchange Commission, 3269
News for farmer cooperatives, 3270
reprints, 14596
News letters:
Civil War Centennial Commission, 3293
Equal Employment Opportunity Commission, 3271
Federal Library Committee, 2979
Head Start Projects, 8824
medical news letter, Medicine and Surgery Bureau, 3187
Navy Supply Corps, 3256
NBS publications newsletter, 3257
President's Council on Aging, 3272
President's Council on Physical Fitness, 3273
rural areas developments, 3484
State Department, 2850
United States National Commission for UNESCO, 3632
USDA employee, 3655
News releases, *see* Publicity—*see also* names of departments, etc., issuing releases.
News reporters, *see* Reporters and reporting.
News summary, Federal Trade Commission, 2970
Newsletters, *see* News letters.

Newsom, William A., jr., stability and control characteristics of 4-duct tandem V/STOL transport, 9502
Newspapermen:
employment outlook, 9254
Il'ya Erenburg interviewed, USSR study, 17782
see also Journalists.
Newspapers, census of manufactures, industry report, 3892
see also Press.
Newsprint, *see* Paper.
Newtonian aerodynamic characteristics of blunted right elliptical cones for cone thickness ratios of 0.25 to 3, 13809
Newtonian equations, *see* Equations.
Neyro-Gumoral'nyye mekhanizmy retikulyarnoy formatsii stvola mozga, selections from USSR book, 7606
NG, *see* National Guard.
Ng, Sheung Wan, relief, 8694
NGB, *see* National Guard Bureau.
Nicaragua, mineral industry, minerals yearbook chapter, 7688
Nicholls, Charles A.:
fats and oils, 8329
grain mills, 5439
Nicholls, Harry R.:
comparative study of explosives in granite, 1164
presplitting rock in presence of static stress field, 16586
Nichols, Billy J., measurements of resonant charge exchange cross sections in nitrogen and argon, 4980
Nichols, Charles A.:
miscellaneous food products, 3886
sugar and confectionery products, 3884
Nichols, George C., basic research, applied research and development in industry, 7950, 16740
Nichols, Ivan L., volatilization of cesium chloride from pollucite ore, 12247
Nichols, Mark R., aerodynamics of airframe-engine integration of supersonic aircraft, 13805
Nichols, Paul R., comparative study of juvenile American shad populations by fin ray and scute counts, 7442
Nichols, Vernon M., relief, 12889, 14364
Nicholson, William R., menhaden catch along Atlantic Coast, age, etc., 5965
Nickel:
beryllium alloy, cold reduction and thermal treatment effect on tensile properties at cryogenic temperatures, 4942
brazing, joins tungsten wire and tubing, 4884
chromium alloy, self-lubricating composites, 12357
deposits, North America, 13401
disposal from national stockpile, law, 425
electroformed, pressure vessel fabrication, 11012
influence of yttrium on oxidation of nickel at 1200° C, high-temperature corrosion studies, 12255
mineral industry survey, monthly, 3274
minerals yearbook chapter, 16566
nickel/tin coating protects threaded fasteners in corrosive environment, 2402
porous, self-lubricating composites, 12357
superalloys for high temperature applications, 11016
Nickel-cadmium cells, *see* Storage batteries.
Nickerson, Raymond S., uncertainty as applied in psychological research, 3786
Nieberding, William C., thrust measurement of SERT–I ion thrustors, 9532
Niemann, L. H., market information on electronic products in France, 10028
Niemi, Reino, blast effects on space vehicle structures, 4897
Niger:
gazetteer, official standard names, 13392
mineral industry, minerals yearbook chapter, 9362
Nigeria:
mineral industry, minerals yearbook chapter, 2338
mission to visit, 10686
official publications, guide, 17824
Nigh, June, survey of activities of Committee on Foreign Affairs, House, 89th Congress, 1st session, 7143
Nightglow, *see* Airglow.
Nightwear, knit, current industrial reports, 2818
NIH, *see* National Institutes of Health.
Nike Hercules missile, *see* Missiles.
Nikola Tesla Institute, compensated and ohmic measuring voltage dividers, Yugoslavia study, 962
Niksch, Larry A.:
basic data on economy of Pakistan, 11516
establishing business in Pakistan, 343, 15651
Nimbus spacecraft, *see* Satellites.
NIMH, *see* National Institute of Mental Health.
NINDB, *see* National Institute of Neurological Diseases and Blindness.
9-alphafluorohydrocortisone, *see* Hydrocortisone.
Niobium:
alloys—
compatibility with hydrogen in presence of temperature gradient, 13842
high-temperature, 10919
ultrahigh-vacuum creep behavior at 2000° and 2200° F, 4960
columbium alloy sheet, oxidation-resistant coatings on, study, 7828
columbium-modified NASA TAZ–8 superalloy, investigation, 15188
columbium tubing alloys, compatibility with potassium, 9542
elemental, USSR physical-chemical studies, 9087
metal of space age, USSR study, 13512
minerals yearbook chapter, 16556
plates under hypervelocity impact, dimple, spall, and perforation characteristics, 12350
superconducting current-carrying capacity through hydrogen treatment, enhancement, 16693
tantalum bearing alloy, electric-arc furnace reduction of tin slag for production, 7707
thin films are superconductive in strong magnetic fields at low temperatures, 7778
Niobium carbide, liquid, containment on graphite between 3500° and 4700° K, 16614
Niobrara River, upper, compact, approving, report, 16092
Nis oblast, Yugoslavia, labor safety, establishment, 16499
Niskala, George R., cutting hardwood cants can boost sawmill profits, 17684
Nitchromaxo, titrimetric microdetermination of sulfur in organic phosphorus and arsenic compounds, USSR study, 13539
Nitrates, *see* Ammonium nitrate.
Nitrides:
chemical reactions and bonding in these compounds, 13836
refractories produced by alumonitrosilicothermal method, USSR study, 12191
see also Boron nitride.
Nitrogen:
arc-heated streams, effect of discontinuities on laminar heat transfer, 15198
boiling, visual study of velocity and buoyancy effects, 15138
fertilizer situation, 8141
gas, in oilfields in North Dakota, 17857

Nitrogen—Continued
laminar boundary layers, application of Eckert reference formulation, 7740
liquid, gamma ray detector coolant, mount for portability, 9455
liquid-nitrogen-cooled condensers, use in pumping of mercury ion beams, 4965
megawatt direct-current arc heating, 9536
minerals yearbook chapter, 16567
mixture properties for hydrogen and carbon-dioxide, 6337
mixtures with carbon dioxide for conditions typical of Mars entry, estimate of chemical kinetics, 6451
nonequilibrium hypersonic flow over wedge, effects of vibration-dissociation coupling models, 13828
replacing by helium in air, analysis of effect on development of chick embryos, 978
resonant charge exchange cross sections, measurements, 4980
silicon-nitrogen materials used to develop flexible protective coatings, 4864
solid, formed by cryopumping, 15058
thermodynamic and transport properties for nitrogen-oxygen system, 7851
Nitrogen fluorides, synthesis of nitrogen fluorides in nitrogen plasma jet, 12426
Nitrogen oxides:
determination in diesel exhaust gas by Saltzman method, 12249
heat transfer to turbulent flow in smooth tubes for reacting N_2O_4–NO_2 system, 4964
Nitrogen tetroxide, heat transfer to turbulent flow in smooth tubes for reacting N_2O_4–NO_2 system, 4964
Nitrosalicylanilides and related compounds, relation of chemical structure to fish toxicity, 14674
Nitrous exchange in brain of rats during action of pulse accelerations, 16421
NLRB, *see* National Labor Relations Board.
NMR (nuclear magnetic resonance), *see* Nuclear magnetic resonance.
Nobel, Alfred, legacy, (remarks), 3856
Noble gases, inert-gas welding of tubes, simple device facilitates, 9467
Nobles of Mystic Shrine, *see* Ancient Arabic Order of Nobles of Mystic Shrine.
Nobo y Pividal, Rafael J., relief, 16061
Noctilucent clouds, *see* Clouds.
NODC, *see* National Oceanographic Data Center.
NODC quarterly accessions, computer produced indexes, 13892
Nodules, *see* Electronic nodules.
Noe, Frank E.:
mineral industry of—
Bolivia, 4762
British Honduras, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama, 7688
Colombia, 6298
Islands of Caribbean, 9363
Noise:
acoustical treatment, building construction materials and practices, Army technical manual, 1650
aerodynamic, response of complex shell structures, 9423
aircraft landing and takeoff, land exposed, optimum use, study, 7732
boundary-layer, on X–15, flight measurements, 7877
combating on ships, USSR book review, 1047
equivalent noise bandwidth analysis from transfer functions, 1241
high-frequency, effect on blood sugar level, USSR study, 12155
increase in effectiveness of random balance method, USSR study, 9161
jet aircraft noise near airports, alleviation, report, 11214
Noise—Continued
land use planning with respect to aircraft, Air Force manual, 9850
Langley low-frequency facility, human response to frequencies below 50 cps, 4948
linear signal noise summer determines and controls S/N ratio, 17900
loudness and noisiness of complex sounds, measuring, research and methods, review, 7741
low frequency fluctuations, effects on human subjects, 6464
noise-stability of codes with summation, USSR study, 7614
ocean, subsurface cavitation as source, USSR study, 13559
pseudonoise acquisition demodulator achieves automatic synchronization of telemetry channel, 12313
radio, quarterly data, 5010, 6477, 11096, 13860
random excitation, stationary and nonstationary, maximum response of linear mechanical oscillator, 4807
rocket exhaust jet, contribution of combustion noise, 9432
signal and noise level estimation in coherent PCM channel, 7734
spacecraft structures, low-frequency noise reduction, 16605
ultra-low-noise 1700 Mc parametric amplifier system, 7859
see also Noise suppressors—Sonic boom.
Noise suppressors:
interaction of structure and liquid, in sound suppressor system, 4926
liquid behavior of reservoir in sound suppressor system, 4921
S–IC, predicted acoustical performance, 9525
NOL, *see* Naval Ordnance Laboratory, White Oak, Md.
Nomenclature:
aircrew stations, military standard, 8814
rocks adjacent to Cretaceous-Tertiary boundary, western San Juan Basin, N. Mex., 12024
see also subjects.
Nominations, Senators, Federal and State laws, summary, 10276
see also names of persons.
Nonappropriated funds:
AMC pamphlet, 14208
military welfare funds, uniform accounting system, Air Force manual, 9856
Nonfat dry milk, *see* Milk.
Nonferrous alloys, *see* Alloys.
Nonferrous castings, *see* Castings.
Nonferrous metals, *see* Metals.
Non-glassy inorganic fibers and composites, 15086
Nonlinear equations, *see* Equations.
Nonlinear programming and optimal control, 9441
Nonlinear theories:
synthesis of nonlinear control laws, USSR study, 9155
cancellation, 14790
Nonmetallic minerals, *see* Minerals—Nonmetals.
Nonmetals:
industries—
Federal metal and nonmetallic mine safety act—
hearings, 8786
law, 15750
reports, 1840, 1843, 16072
review, minerals yearbook chapter, 1170
technologic trends, minerals yearbook chapter, 1171
nonmetallic crude materials, Federal item identification guides for supply cataloging, supplements, 2938
nonmetallic fabricated materials, Federal item identification guides for supply cataloging, supplements, 2938

Nonpegmatitic beryllium occurrences in Arizona, Colorado, New Mexico, Utah, and 4 adjacent States, 15029
Nonprofit organizations:
Leningrad scientific institutions, improvement in research and planning, 17776
older Americans act, grants to public and private agencies, etc., for research, demonstration, and training projects, 3
Nonseparable solutions of Helmholtz wave equation examined for applications, 15523
Nonwhite population:
educational attainment of women and men, fact sheet, 1553
educational attainment of women, fact sheet, 16908
Michigan, employment problems of nonwhite youth, 12748
women workers—
current data, 5234
fact sheets, 2628, 8114
Nooksack Indians, judgment funds, disposition reports, 17227, 17507
NORAD Combat Operations Center, Cheyenne Mountain, El Paso, Tex., methods and costs of constructing underground facility, 13679
Norepinephrine, intravenous infusion, calorigenic response of rabbits, 9858
Norfolk, Va., area wage survey, metropolitan area, 14974
Norfolk and Western Ry., accident, 12073
Norfolk Naval Shipyard, employees, relief, law, 15753
Noril'sk, Russian SFSR, aim for healthier working conditions, 17769
Norling, A. H., future U.S. transportation needs, 6349
Normal mode theory, *see* Velocity.
Norman, Lindsay D., Jr., thermoelectric properties of yttrium selenides and tellurides, 17860
Norris, John D.:
calibration of conical pressure probes, 1257
effects of bluntness on subsonic drag of elliptical forebody, 9519
Norris, L. Fredrick:
overlay copy technique to provide high-contrast electron micrographs for automatic metallographic analysis, 17921
secondary emission electron microscopy for examining materials containing dispersed oxide particles, 16700
Norris, Stanley E., ground water resources of Dayton area, Ohio, 9022
North America:
Atlantic Coast, surface water temperature and salinity, 3991
east coast—
lights and fog signals, list, changes, 5055, 9581, 13894, 15237
1967, tide tables, 10005
fisheries conference, addresses and panel discussions, 17674
genus Lexiphanes of America north of Mexico, 5041
geology—
abstracts, 6028
bibliographies, 14748, 16357
mineral industry, regional review, minerals yearbook chapter, 6309
nickel deposits, 13401
Pacific Coast, 1967 tidal current tables, 15638
west coast—
lights and fog signals list, changes, 1337, 6522, 9582, 13895
tide tables, 6987
North Atlantic slope basins, *see* Atlantic States.
North Atlantic treaty, and related agreements, texts, 4220
North Atlantic Treaty Organization:
American military installations and NATO bases in France, on-site inspection, subcommittee report, 15961
North Atlantic Treaty Organization—Con.
Atlantic alliance—
allied comment, 4219
basic issues, 5812
problems and prospects, hearings, 11808, 17580
Atlantic Union, strengthen by establishing commission, etc., hearings, 8772
business with NATO, how U.S. companies can participate, etc., 1691
crisis in NATO—
hearings, 11651
reports, 14418, 15919
NATO, backbone of alliance, statements by President Johnson, Under Secretary Ball and Secretary Rusk, text of joint declaration, 9724
nuclear weapons and Atlantic Alliance, bibliographic survey, 8256
parliamentarians' conference, 1965—
report of House delegation, 15848
report of Senate delegation, 5507
status of forces agreement, criminal jurisdiction operations—
hearing, 17572
report, 17561
Yugoslav analysis in relation to Warsaw Pact, 14812
North Carolina:
Avery County Soil and Water Conservation District, trout fishing in silt-free stream (colored poster), 9092
climatological data, 2751
Coastal Plain, tobacco farms, commercial, costs and return, 10412
congressional districts, 90th Congress, 17015
county business patterns, 3914
District Court, eastern district, term to be held at Clinton, law, 421
eastern, chemical composition of rainfall, 13414
economic development program (address), 6998
electric rate book, 17657
floods on small streams, probable magnitude and frequency, 10637
Indians, culture and civilization, 7507
labor laws affecting women, summary, 1555
Lake Michie, humid region, evaporation study, 16359
landings, fish and shellfish, 3276, 13335
life tables, 18041
mainland areas, excluding Washington and New Bern, hurricane survey, engineer report—
departmental edition, 17631
document edition, 17165
manufacturing plants, location by county, industry, and employment size, 1963 census, 14258
medical assistance for the aged under social security act, 11905
peanut handling, shift from bag to bulk, economic implications, 9822
postal map, 13939
precipitation data, hourly, 3045
retirement credit for Federal employees' service under cooperative agreement, hearing, 11677
selected counties, population, special census, 9965
women workers, 12575
North Carolina Mutual Life Insurance Co., home office bldg., dedication ceremonies (address), 6997
North Cascades Mountains, study report, 10666
North Cascades National Park, establish, hearings, 14488
North central region, *see* Central States.
North Counties Hydro-Electric Co., relief, 390

239-221—67—No. 863——29

North Dakota:
Barnes County Soil Conservation District, farmstead windbreaks (colored poster), 9693
census of manufactures, 1963, area statistics, 16995
central, performance of 7 seed sources of blue spruce, 14704
climatological data, 2751
county business patterns, 235
fish control with toxaphene, 11977
Indians, general information, 14763
life tables, 18042
manufacturing plants, location by county, industry, and employment size, 1963 census, 14257
mineral industry, minerals yearbook chapter, 1138
Mississippi River and tributaries, fishery products, wholesale dealers, list, 771
nitrogen gas in oilfields on Nesson anticline, 17857
precipitation data, hourly, 3045
soil survey laboratory data and descriptions, 16836
Williston basin, oilfields, 13672
women—
equal pay, 1965 laws, 5239
labor laws, summary, 14091
North Hempstead town, N.Y., population, special census, 5495
North Korea, *see* Korea.
North Little Rock, Ark., area wage survey, 1093
North Pacific Ocean, *see* Pacific Islands.
North Platte River and Valley, basin, general information, 11209
North Sea, lights and fog signals, list, changes, 2482, 7959, 12407, 16746
North Vietnam, *see* Vietnam.
Northeast (U.S.):
Northeast Corridor transportation project—
area system, 8428
technical paper, 8428
northeastern region, consumer expenditures and income, 1960–61—
rural farm population, 15438
rural nonfarm areas, 1089
urban and rural, 10854, 12207
power failure of Nov. 9 and 10, 1965—
effect on communications, 7360
hearings, 15977
report to the President, 725
responses to inquiries, report, 7189
principal electric facilities, map, 7374
Northeast Airlines, Inc., accident, 3950
Northeastern Forest Experiment Station:
report, 11993
watershed management research, bibliography, 10601
Northeastern States, *see* Northeast (U.S.).
Northern Forest Fire Laboratory, research program, general information, 10561
Northern Hemisphere, *see* Hemisphere, Northern.
Northern Pacific Ry., accident, 6095
Northern Utilization Research and Development Division:
publications and patents, list, 5275
chemically modified oil products and industrial uses, 9785
composition of oilseeds, 9782
industrial uses of proteins, 9786
soybean oil, edible, 9783
soybean protein products, edible, 9784
Northfield School, East Northfield, Mass., carillon, duty-free entry, 17188
Northwest (U.S.):
commercial wheat farms, 1965 costs and returns, 14530
forest industries, prospective developments, 6875
Indians, general information, 14767
Northwest (U.S.)—Continued
Pacific Northwest—
current discharge at selected stations, 3543
forest industries, production, prices, employment, and trade, 3420
forest insect conditions, 10555
major industrial plant sites, Puget Sound area, Wash., 5430
month-end storage in major reservoirs, 3543
national forest timber, measuring, GAO report, 7476
precipitation and temperature, monthly, 3307
water resources—
annual peak discharge at selected gaging stations, 1965–66, 14745
summary, 3308
weekly runoff report, 3309
power markets, economic base study, forest industries, 6875
principal electric facilities, map, 7377
timber-cutting practices, need for effective controls, Forest Service, GAO report, 16345
Northwest Airlines, Inc., emergency board report, 13284
Northwest Shellfish Sanitation Research Planning Conference, proceedings, 2526, 15276
Northwestern States, *see* Northwest (U.S.).
Northwestern University, auditory test, speech discrimination, using CNC monosyllabic words, 15489
Norton, John D., PARM, introduction to post-attack recovery planning system, 659
Norton, Virgil J., economic study of Boston large-trawler labor force, 10528
Norton, W. L., Coast Guard reservist, 2754
Norwalk, Conn., commodity transportation survey production area series, 8340
Norway:
air transport services, agreement, 15365
fisheries, 7434
labor conditions, 13641
lights and fog signals, list, changes, 2483, 7960, 12408
mineral industry, minerals yearbook chapter, 7700
northwest and north coasts, sailing directions, change, 11144
Norwich, Conn., reduced defense spending, potential impact, 14207
Nose (aircraft):
leading edge bluntness effects on laminar boundary layer separation, 6454
stagnation and static pressures on nose-mounted 15° conical probe, 15155
Nosek, Stanley M., nozzle critical flow characteristics of sodium vapor, 4931
Noss, Richard B., Cambodian, basic course, 14029
Notes, *see* Treasury notes.
Notice to aviators, 3278
Notice to mariners, 5059
Atlantic and Mediterranean, 3279
Great Lakes and tributary waters, 3280
Pacific and Indian Oceans, 3279
Notices of judgment, food, drug, and cosmetic act, 3281–82
Notices to airmen, international notams, 3079
Notifiable diseases, *see* Contagion and contagious diseases.
Notions, miscellaneous, census of manufactures, 1963, industry report, 5451
Nottingham, Wayne B., thermionic conversion theoretical background, 6465
Nova Scotia, sailing directions, change, 7954
Novae, *see* Stars.
Novak, Alexander S., *see* Kaznacheev, Aleksandr.
Novak, Arthur F., radiation pasturization of shrimp and oysters, 11430
Novak, Miles, *see* Kaznacheev, Aleksandr.

Novikov, Ivan I., 50th birthday celebration, USSR translation, 9163
Novoa, Angel Montero-, *see* Montero-Novoa, Angel.
Novosibirsk, RSFSR, French diplomat visits, report, translation, 13464
Nowakowski, Przemyslaw, relief, 5744, 8453
Nozzles:
ablative materials as nozzle sections of—
hydrogen-oxygen rocket engines, 9510
storable-propellant rocket engine, evaluation, 9500
conical—
analysis of supersonic flow phenomena by method of characteristics, 15164
with controlled inlet velocity profile, turbulence heat-transfer, and boundary layer measurements, 7822, 17911
critical flow characteristics of sodium vapor, 4931
exhaust jet wake and thrust characteristics of nozzles designed for VTOL downwash suppression, 4828
expansion and flow characteristics of potassium vapor, 4953
gaseous-core nuclear propulsion system, effect of seeded propellant layer on thermal radiation in, analysis, 2415
Mach 2.22, exhausting to quiescent air, velocity profiles, etc., 16673
rocket—
catalysis of hydrogen-atom recombination, 6341
exhaust plume at low altitude, aerodynamic model, 16762
large area ratio, performance of Apollo storable propellants, 15173
materials, performance with solid propellants, 9541
vortex flow and erosion due to warm-gas injection for thrust vector control, 4971
thrust vector control, for Minuteman missile program, procurement, Air Force Dept., GAO report, 17709
NPIP, *see* National poultry improvement plan—Poultry.
NPS national prisoner statistics series, 5093, 15263
NRAB, *see* National Railroad Adjustment Board.
NREC technical report, 659
NRL, *see* Naval Research Laboratory.
NROTC, *see* Naval Reserve Officers Training Corps.
NSF, *see* National Science Foundation.
NSLI, *see* Life insurance—National service life insurance.
NTC, *see* National Teacher Corps.
NTID, *see* National Technical Institute for the Deaf.
NTIP, *see* Turkeys.
Nuclear chemistry, *see* Radiochemistry.
Nuclear desalination equipment of low capacity, USSR, 2220
Nuclear energy, *see* Atomic energy.
Nuclear explosions:
cloud development studies, 15538
containment laws for reactor vessels, 2502
global fallout products, 11414
hazards, indemnity provisions of atomic energy act, amend—
hearings, 15778
law, 17135
reports, 15913, 15926, 16135
Plowshare program—
general information, 11443
Isthmian Canal studies, 1964—
AEC's nuclear operations, 156
construction by nuclear methods 152
excavation methods, 154
excavation plan, 153
general construction plan for sea-level canal, 157
on-site survey program 158
safety evaluation for air blast, ground shock, throwout, and dust, 155
Nuclear explosions—Continued
Project Dribble, Salmon event—
decoupled, cavity pressure and temperature measurements, feasibility, 3852
test in salt dome, grouting mixtures employed, laboratory design, analysis, and field control, 3853
underground detonation, structural response of test structures—
residential-type in close proximity, 3850
tall industrial and residential, 3851
tests, international negotiations on cessation of weapon tests, Sept. 1962–Sept. 1965, review, 11389
underground detonations—
ground motion and containment, Project Dribble, 5415
off-side radiological surveillance, 6868
Project Shoal, post-shot hydrologic safety, 6867
Nuclear explosives, *see* Atomic blasting.
Nuclear fuel, *see* Reactor fuels.
Nuclear fusion, selected articles, translations, 11412–418, 12668
Nuclear heating, *see* Heat.
Nuclear instrument modules, standard, specifications, 6862
Nuclear magnetic resonance, analysis of mixed pentaerythritol, dipentaerythritol, and 1,1,1-trimethylolpropane esters, 1383
Nuclear Marine Propulsion Conference, proceedings, 1676
Nuclear ordnance, *see* Atomic ordnance.
Nuclear physics:
nuclear installation at Rumanian Atomic Physics Institute, 14841
Pegram Laboratories, progress report, 8287
reactor physics efforts required in support of fast breeder development program, 11440
Nuclear power, *see* Atomic energy.
Nuclear power plants, *see* Nuclear reactor power plants.
Nuclear powered ships:
naval nuclear propulsion program, hearing, 8483
NS Savannah—
executive agreements waiving sovereign immunity and limitation of shipowner's liability, opinion of Attorney General, 14959
liability during private operation, agreement with—
Italy, 9729
Netherlands, 11261
nuclear marine propulsion, conference proceedings, 1676
personnel, ionizing radiation effects on eyes, 14991
submarine, general information, 5422
Nuclear propulsion, *see* Propulsion.
Nuclear radiation, *see* Radiation.
Nuclear reactions, optimum target orientation in experiments, 1278
Nuclear reactor power plants:
application of installation for water desalination with simultaneous production of electric power, USSR study, 2210
boiling nuclear superheater (BONUS), power station, Punta Higuera site, Puerto Rico—
project completion report, 15537
startup summary report, 5388
abstract, 8278
Canadian and American progress in construction, use, etc. (remarks), 9933
civilian power program, AEC authorizing legislation, 1967, hearings, 8482
combination nuclear power and desalting plant, engineering and economic feasibility studies, 5412, 6863–64

Nuclear reactor power plants—Continued
combination nuclear power desalting project—
hearing, 17150
report, 17497
comparison with coal fired power plants for TVA system, 14046
dual purpose electrical power generation and desalting project in California, U.S. participation, report, 16145
electromagnetic alkali metal pump research for spacecraft power systems, 6332
1000 MWe supercritical pressure nuclear reactor plant study, progress report, 161
sodium components development program meeting, proceedings, 5386
unified digital instrumentation and control system, feasibility study, 15536
use of Beloyarsk atomic power reactors for dual-purpose desalinization systems, 2198
water systems of ordinary and atomic power plants, corrosion studies, USSR, 924
Nuclear reactors, *see* Reactors (atomic).
Nuclear rockets, *see* Rockets.
Nuclear safety, review of recent developments, 3283
Nuclear science:
abstracts, 3284
Government-wide index, 3025, 12759
index, 3285
cumulative report number, with public availability citations, 3857, 6871, 8302
demonstration center, Atoms in Action, information, research and teaching program (remarks), 15544
European Nuclear Research Center, Switzerland, International, activities, 4602
John H. Williams and nuclear science in Minnesota (remarks), 8300
research and education possibilities (remarks), 9935
Rumania, developments, translation, 13482
series, 1678–79, 14236
single particle energy levels and wave functions in nuclear structure calculations, Fortan program, 16720
Nuclear tests, *see* Nuclear explosions.
Nuclear warfare, *see* Atomic warfare.
Nuclear weapons, *see* Weapons.
Nucleate boiling, critical heat flux for saturated pool boiling from horizontal and vertical wires in reduced gravity, 4905
Nucleation, *see* Phase studies.
Nucleoproteins, protein-deficient ribonucleoprotein particles and ribosomal protein, reconstruction of biologically active ribosomes, 10774
Nucleotides, composition of deoxyribonucleic acid in pasteurella, USSR study, 10831
Nuclides, *see* Radionuclides.
Nude cold-cathode gages, *see* Ionization gages.
Nugent, R. C., preshot investigations, Project Pre-Schooner, Nevada test site, Feb. 1964, 151
Numbers:
law of large numbers and social statistics, USSR study, 4690
standardization of numerals on highway signs, reference guide, 16815
Numerical analysis, *see* Numerical calculations.
Numerical calculations:
antenna cut-back factor for LF radio waves, 6480
applications of rate diagrams to analysis and design of class of on-off control systems, 10952
area computation, right-of-way traverse, electronic computer program, 5126
calculating charge distribution about space vehicle, computer program, 6346
Numerical calculations—Continued
calculation of admittance of parallel plate capacitor containing toroid-shaped sample, 13867
carbon dioxide spectral line positions and intensities calculated for 2.05 and 2.7 micron regions, 9555
design of numerical filters for geomagnetic data analysis, 12338
electron guns, Pierce-type, 16760
energy and angular distributions of electrons ejected from helium by protons, 16695
farmers' handbook of financial calculations and physical measurements, 16919
gas-surface interactions, 10949
ice-soil retaining structures, 11891
methods used in oceanographic research, USSR studies, 2192
nonequilibrium channel flow of multicomponent gaseous mixture in near-equilibrium region, computing, 6460
numerical techniques, Antisubmarine Warfare Environmental Prediction Services manual, 13900
OMNITAB computer program, analysis, 7911
planetary perturbations, general, expansion of disturbing force, computation, 6412
proposed equation for calculation of forces on sphere accelerating in viscous fluid, verification, 15508
solutions for blunt axisymmetric bodies in supersonic spherical source flow, 7891
small watershed flood routing techniques, 8125
temperature of water in active layer of White Sea, method of calculating, USSR study, 12157
vertical temperature profile in sea, calculating, USSR study, 12159
viscosity in molten salts (oxides), 7901
waterflood performance calculations, use of shape factors and channel volumes from potentiometric model, computer techniques, 12239
Numerical lists and schedule of volumes of reports and documents:
88th Congress, 1st session, errata, 2518
89th Congress, 1st session, 9620
Numerical stimulation of ionospheric wave interaction experiments, 1300
Numismatics:
ancient science, survey of its history, 5039
new publications, announcement and order form, 6567
Nunge, R. J., laminar dispersion in capillaries and counterflow transport, 851
Nurse Corps, Army:
facts about Army Nurse Corps, 5380
male nurses, regular commissions, authorize—
law, 15776
reports, 12991, 17494
Walter Reed Army Institute of Nursing, educational opportunities for students, 3844
Nurse Corps, Navy:
male nurses, regular commissions, authorize—
law, 15776
reports, 12991, 17494
Nurseries, *see* Day care of children.
Nurseries (horticulture):
application of granular herbicides to ornamental plant materials, 14103
bibliography, 12502
see also Forest nurseries.
Nursery schools, *see* Day care of children.
Nurses and nursing:
employment outlook, 9270
liability in good Samaritan cases, relieve, law, 441
looking for nurses, fill your needs through Professional Placement Network, 11887
LPN, the gentle people, 8848

Nurses and nursing—Continued
nurse-midwifery, practice in United States, 12732
nurses' aide in nursing home, instructor's manual, 9627
nursing in occupational health, 1426
nursing part time in industry, guide to voluntary and official agencies on how to develop, etc., in small establishments, 1427
occupational health nurses, initial survey, 13979
personnel, health manpower source book, 13969
practical, licensing, etc., in D.C., amend act—
law, 15708
reports, 15851, 16088
professional nurse traineeship program, PHS short-term training courses, 8001, 12485, 18077
programed course, closed drainage of chest, 9623
psychiatric-mental health trainee stipends, 11110
institutions offering for graduate and undergraduate education, 11113
Public Health Service, new career opportunity in psychiatric mental health nursing, 9558
registered nurses, traineeships under Public Health program, 1436
research grants and awards, 12464
research grants, projects, 1955–65, 1434
space needs for schools of nursing, guide for projecting, 13965
temperature, pulse, and respiration measurement, programed notebook for nursing assistants, 13995
training act of 1964—
project grants, list, 18059
student loan program, 18064
Veterans Administration nurse, rewarding career, 18136
see also Medical Specialist Corps, Army—Nurse Corps, Army—Nurse Corps, Navy.
Nursing, *see* Nurses and nursing.
Nursing Division, PHS, research grants and awards, 12464
Nursing homes:
aged, conditions of participation for extended care facilities under health insurance program, 8024
and related facilities, industry wage survey, 9335
care of veterans in Alaska and Hawaii, eliminate certain requirements, reports, 10134, 11744
employees in nursing and personal care homes, 1964 statistics, 15310
industry, industrial services, 4332, 7328
minimum wage and overtime protection, study, 5223
mortgage insurance, FHA program, 13321
Nation's nursing homes, conditions and problems, hearings, 565, 1926
nurses' aide, instructor's manual, 9627
veterans nursing care programs, operation, review, hearings, 11689
Nussbaum, William, and wife, relief, 15812
Nutrients, *see* Nutrition.
Nutrition:
better eating for head start in child development centers, 4272
bitterbrush, levels under natural and thinned ponderosa pine, 8963
child nutrition act of 1966—
hearings, 13010
reports, 12985, 15890
dairy cattle, recent developments, 9779
East Pakistan survey, 18066
eat to live better, 6765
key nutrients, 8157
lessons, guide for extension home economists, 8159
meal planning made easy, 6766
Nutrition—Continued
nutrition program news (periodical), 3286
requirements for survival in cold and at altitude, symposia, proceedings, 14185
research careers, 9825
USSR—
conference, 925
food concentrates and their utilization in home, 9129
studies, 6134
talks, 10835
value of food available for consumption, 5270
value of home-prepared foods, calculating, 9781
Nutrition Laboratory, *see* Army Medical Research and Nutrition Laboratory.
Nutrition of plants, *see* Plants.
Nuts:
foreign agriculture circulars, 2987
tree nuts, production, value, by States, 14039
U.S. standards, check list, 8791
Nuttall, C. J., jr., performance of sand under tire loads, 4336
Nylon:
bit removes cork insulation without damage to substrate, 9464
phenolic, effect of nylon grain size on ablation, 13810
shock absorber for parachutes, 6404
Nysmith, C. Robert, impact of high-fineness-ration projectiles into thick targets, 7841

O

O.A.R., *see* Aerospace Research Office.
O.A.S.D.I., *see* Old age, survivors and disability insurance.
O.A.S.I. series, 1466–68, 2563, 5143–44, 6604–8, 8025–26, 9654–56, 11227–229, 12510–512, 15327–330, 16830–833, 18100
O.C.S., *see* Officer candidate schools.
O.M.E., *see* Minerals Exploration Office.
O-rings, *see* Rings.
Oahu, principal electric facilities, map, 7381
Oak:
black, crown and tree weights, 17688
red oak lumber use for portable hog feeder, 10591
stromella canker, description, control, etc., 16322
Oak Glen, training camp for unemployed youth, 14961
Oak Ridge National Laboratory:
low-background whole-body counting facility design, 6857
master analytical manual—
indexes, 9925
supplement, 9926
Oak wilt, Eastern United States, control programs, appraisal, 10590
Oakland, Calif.:
area wage survey, metropolitan area, 9323
commodity transportation survey, production area series, 9959
OAR, *see* Aerospace Research Office.
OAS, *see* Organization of American States.
OASDI, *see* Old age, survivors and disability insurance.
OASI series, 1466–68, 2563, 5143–44, 6604–8, 8025–26, 9654–56, 11227–229, 12510–512, 15327–330, 16830–833, 18100
Oats:
futures—
commitments of traders, 2765
trading and open contracts, 3014
Obert, Leonard A., creep in model pillars, 4790
Obesity, weight control, 16792
Obituaries, Konovalov, Nikolay V., 14809
Oblation, Apollo afterbody heat transfer and pressure, 16683
Obligations, *see* Contracts.
Oblique impact of solid body on soil, 16429

OBR series, 339–347, 1772–74, 4004–15, 5550–52, 7006–11, 8430–33, 10023–30, 11513–521, 12771–786, 14323–327, 15645–651, 17055–58
O'Brien, Donough, rare inborn errors of metabolism in children with mental retardation, 8374
O'Brien, Edward J., relief, 5750, 8449
O'Brien, Gerald D., address, Nov. 3, 1965, 1389
O'Brien, Harold W., impactors for hydrometeor sampling, 8248
O'Brien, Lawrence F.:
addresses—
Nov. 4, 1965, 1394
Nov. 30, 1965, 2509
Jan. 29, 1966, 5084
Feb. 8, 1966, 5085
Feb. 10, 1966, 5083
Apr. 14, 1966, 8015
May 21, 1966, 11171
May 27, 1966, 11170
Aug. 10, 1966, 13920
Aug. 12, 1966, 13919
Aug. 15, 1966, 13916–917
Aug. 17, 1966, 13918
Aug. 29, 1966, 15258
Sept. 26, 1966, 16778
Sept. 29, 1966, 16777
Oct. 5, 1966, 16776
Oct. 10, 1966, 16775
O'Bryan, Deric, Gunpowder Falls, Md., uses of water resources today and tomorrow, 6041
Observatories, *see* names of observatories.
Occupational Classification, Interagency Committee on, *see* Interagency Committee on Occupational Classification.
Occupational diseases:
labor hygiene and occupational diseases, USSR studies, 7617, 10742, 10746, 12187, 13544
USSR studies, 10769
Occupational health, *see* Health—Hygiene.
Occupational health nurses, initial survey, 13979
Occupational hygiene in painting of manufactured articles with synthetic lacquers and paints, USSR, 1028
Occupational instructors, *see* Teachers.
Occupational outlook report series, 9207–9, 9314
Occupational pathology, 12140
Occupational therapists, employment outlook, 9255
Occupational training, *see* Training.
Occupations:
aptitude pattern structure, norms, general aptitude test battery, manual, 16246
Army, recruiting & career counseling journal, 8457
care and rehabilitation of mentally retarded, 14569
career in space science and technology, guidebook, 10973
career opportunities—
Air Force—
civilian careers, from quadrangle to Pentagon, 6800
civilian scientists, engineers, etc., 15485
attorneys in IRS, Office of Chief Counsel, 857, 17741
broadcasting, intern program, 5197
Census Bureau, 270
Commerce Department—
business, domestic and international, 5547
management analysts, 7002
computer trainee, 4560
crops research, 1594
Defense Supply Agency, 17605
civilian program for quality assurance and control, 16210
civilian program for supply management, 8806
Occupations—Continued
career opportunities—continued
Education Office, training for leadership, 17627
Engineers Corps, Army, 16252
entomology research, 1593
estate tax examiners, 4561
Food and Drug Administration, pharmacologists, 8947
Foreign Service, 8055
Foreign Service in USIA, 2618
geography, professional field, 10423
Goddard Space Flight Center, scientists and engineers, 9389
health services, job development and training for workers, 14759
liberal arts and science graduates, prospective jobs, college courses, etc., guide, 17630
Maritime Administration, 2311, 17828
Navy—
lawyer, rewarding career, 9189
surface junior officers, career planning information, 1342
planning for Army officers, 1647
programmers, 4567
Public Health Service, psychiatric-mental health nursing, 9558
Public Roads Bureau highway engineering training program for college students, 5129
repairman or mechanic, 16542
research in nutrition, food science and food economics, 9825
research in OAR, 5324
revenue agent, 4568
revenue officer, 4569
safety officers, Army Department and other Federal agencies, 8389
State Department—
communications and records, domestic and overseas assignments, 2574
secretaries, stenographers, typists, 8067
tax technician, 4571
technical occupations, 5870
Treasury enforcement agent, 5196
United States Information Agency, 5198
Veterans Administration—
automatic data processing, 18139
career occupational series, 18136
Department of Medicine and Surgery, physicians, 16894
veterinarians, Agriculture Department, 14145
wage-hour investigator, 12557
women officers in Armed Forces, 11847
careers in apprenticeship, brief description, 16954
conservation, foresters, forestry aids, range managers, 9224
cooks, training program for delicious career, 10427
counseling girls toward new perspectives, 12569
dictionary of occupational titles, 1985, 13288
conversion table, 4325
training manual, 666
electric light and power, employment outlook, 9299
employed poor, their characteristics and occupations, 10877
English and your career, 7672
factors in job-satisfaction, 14191
Federal, career directory for college students, 8400
Federal position classification plan, 3033
flight standards career planning FAA handbook, 2003
foreign languages and your career, 10876
future jobs for high school girls, 11328
hazardous duty pay for government employees, amend classification act—
hearing, 8788
law, 12837
report, 16070

Occupations—Continued
health careers guidebook, 1987
jobs overseas, questions and answers, information, 13287
library science, 10434
local information, reports by State agencies, list, 13286
mathematics and your career, 7675
mental health career development program, conference proceedings, 15295
Naval, analysis, handbook, 13905
Navy, manual for civilian guidance counselors, etc., 16752
occupational peculiarities of perception of one human being by another, USSR study, 7569
occupational test development, changing emphasis, 663
outlook—
handbook, 6257
quarterly, 3287
publications, price list, 11178
science and your career, facts about training, 7677
service occupations, training under manpower development and training act, 7642
social science and your career, 13647
sociological studies, bibliography, 1082
space careers, learning about industry, 10972
specific, general aptitude test battery, norms, USES manual, 16247
trade & technical skills in Peace Corps, 9610
USES tests, program research on effectiveness of counseling techniques, 1989
see also Agricultural occupations—Employment—*also* names of occupations, industries, etc.

Ocean:
characterization of particular matter, 16767
CHENIS container for lowering liquid dye to any sea depths, USSR study, 14799
commerce, surface effect ships, study of technological problems, report, 5561
convergence-zone-measured sound pressures in deep ocean compared with pressures computed from sound speed depth function, 2495
discriminatory freight rates and balance of payments—
hearings, 1792, 14369
report, 14370
effective use of sea, panel report, 13947
freight rate guidelines for shippers, 12770
freight rates on military cargoes, by U.S. flag vessels reduced—
hearings, 14478
reports, 16109, 17314
gravimeter investigation, USSR study, 877
gravimetric measurements on gyrostabilized base from surface vessels, USSR study, 876
homogenous, steady-state wind circulation, USSR study, 14843
hydrochemical determinations at sea, USSR studies, 2165
International Council for Exploration of Sea, convention, 13079
law of the sea, convention on fishing and conservation of living resources of high seas, 12527
light measurements in study of primary production in sea, USSR study, 14798
physics of, USSR studies, 13466
pollution by oil, international convention for prevention, amendments, implementing—
law, 15730
reports, 12911, 14464
sea dye marker provides visibility for 20 hours, 13749

Ocean—Continued
sea rescue operations with buoyant Stokes litter assembly, 4856
subsurface cavitation as source of noise, USSR study, 13559
thermal structure forecasting, ASWEPS manual, 12411
transportation, freight rates, Action Committee report, 7005
USSR, acclimatization of fish and food organisms in seas, 2223
see also Ocean temperature—Sea ice—Waves—*also* name of ocean.
Ocean cruises, *see* Cruises.
Ocean currents:
Atlantic subsurface equatorial countercurrent, distribution of salinity and temperatures, USSR study, 893
marine telluric currents, magnetic fields, USSR study, 13525
oceanic circulation and Ekman's problem, USSR study, 13471
rhythmic phenomena in Gulf stream, USSR study, 9180
Roberts radio current meter manual, 6981
Ocean Islands, *see* Gilbert and Ellice Islands.
Ocean temperature:
Atlantic Ocean, distribution by subsurface equatorial countercurrent, USSR study, 893
sea surface temperature determination using satellite infrared data, 9440
surface water, Atlantic coast, 3991
table of sigma-t with intervals of 0.1 for temperature, 7441
vertical, profile in sea, calculating, USSR study, 12159
Oceania:
agricultural production, indices, 5868
agricultural situation, 7291, 14546
language, classification, Library of Congress, 4741
Oceanographer (ocean survey ship):
use for ocean environmental research, general information, 11903
Oceanographers:
employment outlook, 9233
trainee, examination announcement, 298
Oceanographic Data Center, National, *see* National Oceanographic Data Center.
Oceanography:
applications of nuclear energy (remarks), 167
Biological Laboratory, Honolulu, progress in 1964–65, activities, 8939
cable length determinations for deep-sea oceanographic operations, 14314
calculation methods used in research, USSR studies, 2192
dissolved-oxygen analyzer for oceanographic use, final report, 12681
effective use of sea, panel report, 13947
fishery and oceanography translations (periodical), 2978
Fishery-Oceanography Center, La Jolla, Calif., research facilities, 2038
Grand Banks region of Newfoundland, 14317
Indian Ocean, international expedition cruises, track charts, 15232
joint Russian-Cuban studies, 16489
marine geophysics, recent studies, USSR, 6126
marine resources and engineering development act of 1966—
law, 11563
report, 10166
marine sciences research, 8801
National Oceanographic Data Center—
publications, 6519–24, 7953, 9577–85, 15231–232
quarterly accessions, 13892
non-acoustic methods of submarine detection, 2254

Oceanography—Continued
oceanographic activities behind Iron Curtain, report of U.S. congressional delegation, report, 12988
oceanographic report, 14317
oceanographic terms, glossary, 15239
radioisotope applications in hydrospace, evaluation, 11416
research, development, testing, and evaluation at Naval Oceanographic Office, 17971
scientific and technical personnel, 17649
sea grant colleges and program act—
hearings, 11825, 14431
reports, 15863, 16081
seagoing research vessels, Academy of Sciences, USSR, 6165
specialists, Moscow State University, training, 894
under sea vehicles, 4365
underwater magnetic measurements on drifting station, USSR study, 13517
underwater research, recent developments, USSR study, 14909
university curricula, 17650
USSR—
oceanological research laws, discussion, 16430
recent developments, 6117
recent studies, 9096, 10789
water masses, general circulation, USSR study, 16439
see also Hydrooptics.
Oceanography, Interagency Committee on, *see* Interagency Committee on Oceanography.
Oceanology, *see* Oceanography.
Oceans of truth (remarks), 15542
Ock Wah Wong, *see* Hom Sheck See, and wife.
O'Connor, Charles M.:
industry wage survey—
cigarette manufacturing, 4732
paints and varnishes, 17812
O'Connor, William F.:
effects of decompression on operator performances, 11448
hypoxia and performance decrement, 15557
OCS, *see* Officer candidate schools.
Oculomotor nucleus, electrical stimulation, effects of stimulus frequency, 15492
Odar, Fuat:
simulation of drifting snow, 6832
verification of proposed equation for calculation of forces on sphere accelerating in viscous fluid, 15508
O'Dell, Charles A., analysis of wool market news and its importance to marketing efficiency, 13261
Odessa, Tex., area wage survey, 16532
Odessa oblast, Ukrainian SSR, centralized industrial administration, USSR study, 9131
O'Donnell, Patricia M., kinetics of fluorination of iron, 15180
Odontoceti, *see* Cetacea.
Odors, community surveys and evaluation (paper), 15274
OEC, see Organization for Economic Cooperation and development.
Oedemeridae, *see* Beetles.
OEDP (overall economic development programs), *see* Redevelopment (city planning, etc.).
OEO, *see* Economic Opportunity Office
Oettinger, Katherine B., care of your children's teeth, 12733
Off dead center, some proposals to strengthen free world economic cooperation, 1793
Office buildings:
Federal, Fort Worth, Tex., name in honor of Fritz Garland Lanham—
law, 15723
reports, 8545, 13185
International Pacific Halibut Commission authorize construction, hearings, 17390
provide, report, 488
Office employees:
office assistant—
clerical and office machine operator positions, examination announcement, 6972
examination announcement, 17048
Office furniture and equipment:
business machines—
and equipment in France, 7007
market data in Sweden, 10023
census of manufactures, 1963, industry report, 5450, 6899
Federal item identification guides for supply cataloging, supplements, 2939
House of Representatives Members, remove certain limitations on equipment furnished, law, 442
office machines, current industrial reports, 5483
shipments by manufacturers, current industrial reports, 258
see also specific types of furniture, etc.
Office machine operators:
employment outlook, 9214
examination announcement, 6972
Office machine servicemen, employment outlook, 9217
Office machines, *see* Office furniture and equipment.
Office management, need for, and development of interagency management information systems, presentation, 15561
Office of Special Assistant to the President for Consumer Affairs, *see* Special Assistant to the President for Consumer Affairs, Office of.
Office supplies:
and devices, Federal item identification guides for supply cataloging, supplements, 2939
census of manufactures, 1963, industry report, 5451
Officer candidate schools:
become a leader, apply for OCS, 14219
selection of officer candidates, research, 15525
think, OCS means prestige, being a leader, more pay, 12665
Officers, *see* Armed Forces—Safety officers—*also* names of services to which officers belong.
Offices:
hygiene in commerce and offices, ILO convention, text, etc., 17159
insurance industry, impact of office automation, 4730
see also Office buildings.
Official gazette of Patent Office, 3288
Official publications, *see* Government publications.
Official records of Union and Confederate Armies, 1861–65, guide-index, introduction, 14313
Official standards of United States for grades of wool, 11837
Offset lenses add versatility to phototypesetting machine, 9480
Offset printing, modified procedure speeds camera copy layout, 2392
Oganovic, Nicholas, J., address, Sept. 8–10, 1965, 1759
Ogden, Daniel M., jr.:
remarks—
Apr. 15, 1966, 9601
Apr. 30, 1966, 9603
Ogee wing, *see* Wings (aircraft).
Ogives:
cylinder, pressure distributions due to 2-dimensional fabrication-type surface roughness of transonic speeds, 15148
tangent, bodies of revolution, Newtonian aerodynamics, 7857
Ogotoruk Valley, environment of Cape Thompson region, Alaska, 11432
O'Hara, Barratt, costs of world peacekeeping, 7104

O'Hayre, John, gobbledygook has gotta go, 9341
Ohio:
aeroradioactivity survey and areal geology, 11418
census of business, 1963, retail trade, area statistics, 3876, 6883
climatological data, 2751
congressional districts, 90th Congress, 17017
county business patterns, 1728
electric rate book, 13326
hardwood circular sawmills, cause and cost of production delay, 5977
landings, fishery products, 3194, 16294
life tables, 18043
manufacturing plants, location by county, industry, and employment size, 1963 census, 14256
mineral industry, minerals yearbook chapter, 2339
Monroe Soil and Water Conservation District woodland, grassland, and water conservation (colored poster), 9694
postal map, 13940
precipitation data, hourly, 3045
women—
family and property law, summary, 11324
labor laws, summary, 11325
workers, 8118
Ohio River and Valley:
alluvial deposits in Kentucky, hydrology, 4530
Cannelton main lock, filling and emptying system, etc., hydraulic model investigation, 7336
daily Ohio River bulletin, 2824
floods of Mar. 1964, 831
Hannibal Locks and Dam, spillway, hydraulic model investigation, 13297
surface water of basin, records to Dec. 31, 1963, index, 2096
surface water quality of basin, 832
Ohio River Division Laboratories, miscellaneous paper, 11894
Ohio State University, mass spectrometer, duty-free entry, 389
Oil, *see* Oils—Petroleum.
Oil and Gas Office, appropriations, 1967, hearings, 7113
Oil fields, *see* Petroleum.
Oil Import Administration, press releases, 3393
Oil Import Appeals Board, decisions, 3292
Oil pipe lines, *see* Pipe lines.
Oil sand, *see* Sandstone.
Oil shale, gas-combustion oil-shale retorting process, Mines Bureau development, 10908
Oil well logging, guard electrodes, response, 10921
Oil wells, *see* Petroleum.
Oilfields, *see* Petroleum.
Oils:
census of manufactures, 1963, industry statistics, 8329
chemically modified products and industrial uses, publications and patents, list, 9785
current industrial reports, 2817
DC 704 diffusion-pump oil fragmentation, mass spectrometric analysis, 1248
fats and oils situation, 2914
Federal item identification guides for supply cataloging, supplements, 2937
foreign agriculture circulars, 2987
foreign trade in marine-animal oils, 741
light, from fluidized carbonization, analysis, 6312
metal soap-oil systems, behavior, 12437
outlook (talk), 4290
Oils—Continued
reservoirs, partly depleted, repressured with gas, material balance equation for, derivation and application, 9383
see also Fuel oils—Lubricants—*also* names of oils.
Oilseeds:
composition, publications and patents, list, 9782
crop, safflower, growing, etc., 16923
outlook (talk), 4290
production and foreign demand (address), 9809
O'Keefe, J. A., lunar structures as deduced from Muong Nong tektites, 15172
Oklahoma:
Arbuckle Soil and Water Conservation District, irrigated coastal bermudagrass replaces brush (colored poster), 9695
census of business, 1963 retail trade, area statistics, errata, 189
climatological data, 2751
county business patterns, 236, 17003
district court, eastern and western districts, transfer of counties—
law, 17095
report, 13158
electric rate book, 4383
Indians, culture and civilization, 4546
iron and steel scrap, 9360
life tables, 18044
manufacturing plants, location by county, industry, and employment size, 1963 census, 16996
mineral industry, minerals yearbook chapter, 1139
Osage pasture report, 15375
precipitation data, hourly, 3045
Oklahoma State University, mass spectrometer-gas chromatograph duty-free entry, 375
Okpilak River and Valley, soils, development under Arctic environment, 15506
Okuno, Arthur F., ablative and insulating properties of outgassed boron nitride and boron nitride composite, 17922
Olcott, Perry G., geology and water resources of Winnebago County, Wis., 10649
Old age, *see* Aged—Centenarians.
Old-age and survivors insurance, OASI series, 1466–68, 2563, 5143–44, 6604–8, 8025–26, 9654–56, 11227–229, 12510–512, 15327–330, 16830–833, 18100
see also Old age, survivors and disability insurance.
Old-age assistance:
cases, specified types, monthly cost standards used by States, 7343
State plans, characteristics under social security act, 8869
Old-age, survivors, and disability insurance:
additional interest earnings of trust funds from 1960 interest rate amendments, 5141
benefits for workers retiring before 65, 1470
concurrent receipt of public assistance, tabular release, 17643
experience under OASDI system compared to short-range cost estimates, 6603, 11226
farmers and farm workers under, 15332
handbook of statistics, 1464
increase benefits, social security amendments of 1965—
law, print additional copies, report, 13005
Senate amendments, brief description, 1937
summary, 7209
monthly family benefits under 1965 amendments, 5140
mortality study of charter beneficiaries, 18098

Old-age, survivors, and disability insurance—Continued
OASDI benefit increases resulting from conversion of monthly rates under 1965 amendments, 1462
payments, farm rental income, effect, 18100
provisions, legislative history, 2564
retirement experience of old-age beneficiaries, 8022
social security amendments, 1965, new benefits awarded, 2567
social security rulings, 3519, 6613
Old Georgetown Market:
preservation and use—
law, 15767
reports, 8642, 16116
Older Americans, Advisory Committee on, *see* Advisory Committee on Older Americans.
Older persons, *see* Aged.
Older workers, *see* Labor.
Oldham, William J. B., jr., calculations of energy and angular distributions of electrons ejected from helium, 16695
O'Leary, Timothy J.:
effect of mastication, etc., on tooth mobility, 9867
effect of tube-type diet and stress-inducing conditions on tooth mobility, 12632
oral hygiene procedures in presence of tube-type diet, 12633
Oleoresins, yields, conversion from short-season microchipping to full-season yields from standard chipping, 4454
Oleson, M. W., mechanical shock measurement, 12427
Oligopsony, do lettuce buyers exert oligopsony power, 4281
Olinger, Arthur J., relief, 13101
Oliver, Thomas K., jr., neonatal respiratory adaptation, 18062
Olives, canned ripe, standards for grades, 16199
Olsen, L. P., Genetics Workshop of Society of American Foresters, etc., 14716
Olsen, William A.:
cryogenic propellant liquid insulation from heat leak by propellant and its sacrificial boiloff, 9508
interfacial heat and mass transfer in pressurized tank containing liquid hydrogen, 6425
simulator for static liquid configuration in propellant tanks, etc., 9509
Olson, Richard D., Naval research reviews, 3248
Olson, Ronald J., relief, 15804
Olszowa, Wanda, relief, 8518, 11547, 11723
Olympic games, hold 1972 winter games in Utah, invitation, reports, 5787, 8574
Olympic National Park:
general information, 13885
natural history handbook, 5047
revise boundaries, hearings, 14488
Omaha, Nebr., area wage survey, metropolitan area, 4722
Oman, Richard A., numerical calculations of gas-surface interactions, 10949
Oman:
background notes, 16851
mineral industry, minerals yearbook chapter, 4775, 17846
Ombudsman, Swedish office, guardian of people's rights against government, hearing, 10354
OME, *see* Minerals Exploration Office.
Omegatron operating parameters of mass spectrometer in ultrahigh vacuum, 4908
Omnidirectional antennas transmit and receive over large bandwidth, 7787
Omniranges, VHF equipment, maintenance, FAA handbook, 8874
OMNITAB, *see* Electronic computers.
On-the-job training, *see* Employee training.
Onanian, Edward D., analysis of work stoppages, 2297
Oncologists:
all-Union conferences, 13552, 16417
all-Union Society Board, report on 1958–65 activities, resolution of Council of Scientific Medical Societies, 10737
Oncology:
experimental, symposium, USSR résumé, 10768
oncological research at Budapest institutes, USSR report, 17767
Oncorhynchus, *see* Salmon.
100 years after, newsletter of Civil War Centennial Commission, 3293
O'Neal, Russell D., nomination, hearing, 17571
Oneida, Lake, water pollution, control, etc., hearing, 17381
Onions:
canning or freezing, marketing agreement or order, develop, law, 431
market diseases, 16920
stocks, 5177
Onondaga, Lake, water pollution, control, etc., hearing, 17381
Ontario, Calif.:
area wage survey, metropolitan area, 6258
commodity transportation survey, production area series, 8347
World Farm Center, endorse concept, report, 17285
Ontario, Lake:
small craft, gale and whole gale warning facilities chart, 15423
water pollution, control, etc., hearings, 15974, 17381
Ontogeny, population dynamic patterns of animals, contemporary problems, USSR study, 6180
Open space for urban America, 5204
Operating engineers, employment outlook, construction machinery operator, 9256
Operation BREN (bare reactor experiment Nevada):
post pulse gamma-radiation spectrum, 11420
Operation Dominic, radionuclide content of foodstuffs collected at Christmas Island, etc., 8297
Operation Golden Eagle:
directory of Federal recreation areas requiring entrance and user charges, 11164
outdoor recreation, questions and answers on fees, 9602
Operation Heure (high energy neutron reactions experiment):
intense 14-Mev neutron source, feasibility study, 11421
operations plan, 143
Operation SAM, systems analysis module for development of comprehensive Indian health program, 15292
Operations (surgical), *see* Surgery.
Ophthalmic products, census of manufactures, 1963, industry report, 11453
Opthalmologists, dispensing of eyeglasses, hearings, 7221
Ophthalmology:
ametropia, physiologic variations of depth of anterior chamber, 5328
detection of circular light signals in relation to shape and color identification, 8213
developments, USSR study, 963
electrical stimulation of oculomotor nucleus, effects of stimulus frequency, 15492
instruments and apparatus, USSR study, 13524
scotic response in cat, 12645
USSR studies, 12151
Ophthalmoscopy, *see* Television ophthalmoscopy.
Opinions, *see* names of courts, etc., rendering opinions—*also* subject involved.

Opium:
disposal from national stockpile—
hearings, 11643
law, 11573
reports, 10153, 11754
traffic, 15035
Oppelt, Walter H., Lurgi-gasifier tests of Pittsburgh-bed coal, 4799
Optical calibration analysis of U.S. naval space surveillance system, 16761
Optical gyro pickoff operates at cryogenic temperatures, 7784
Optical instruments and apparatus:
industrial plant equipment handbook, 11841
mirror, mount enables precision adjustment, 9490
optical device enables small detector to see large field of view, 12305
Optical measurements:
electrochemical analysis of acids, etc., by optical methods, 16717
experimental measurement of optical angular deviation caused by atmospheric turbulence and refraction, 11065
on snow, 116
Optical mechanics, *see* Mechanics (persons).
Optical observations:
earth's horizon from earth satellite, deriving earth-centered datum, 7880
NASA/MOTS, of ANNA 1B satellite, 4923
Optical output enhances flowmeter accuracy, 4888
Optical projectors simulate human eyes to establish operator's field of view, 4847
Optical pyrometers, *see* Pyrometers.
Optical radiation, *see* Radiation.
Optical systems:
absorption coefficients of fused silica in wavelength range 0.17 to 3.5 microns from room temperature to 980° C, 6440
microscopic waveguide and waveguide components, development, 4804
MIROS program, modulation inducing retrodirective followon, 7730
Optical technicians, opticalman 3 & 2, Navy training course, 9591
Optical techniques for electron probe analysis, 2497
Opticalman 3 & 2, 9591
Opticians:
Bernhard Schmidt, outstanding 20th century optician, USSR study, 6107
employment outlook, 9231
Optics:
direction indicator system does not require complicated optics, 16630
optical-inertial space sextant for advanced space navigation system, 10961
optical maser materials, nuclear radiation processing, 16971
optically driven switch turn-off time reduced by opaque coating, 7795
prospects for laser and optical communications, USSR study, 12122
see also Hydrooptics—Light.
Optimal control:
and estimation theory, combined, 9401
and nonlinear programming, 9441
learning, cybernetics and control theory, USSR study, 10717
minimax control of large launch boosters, 15053
minimax studies, 15054
Optimal processes:
asymptotic systems as model of process of teaching control, USSR study, 10792
celestial-inertial navigation concept for low-thrust interplanetary vehicles, analysis, 10938
optimization, theme of 2d Symposium on Extremum Problems, 13528
optimum target orientation in nuclear reaction experiments, 1278
Optimal processes—Continued
simplified calculation of transition matrices for optimal space navigation, 11068
weight optimization of straight finned radiators, design procedure, 15143
Optimization study of explosive-driven pile, 11397
Optimum brine heater outlet temperature in sea water conversion evaporators, 12053
Optimum earth re-entry corridors, 6342
Optimum pulse filters and signal accumulators, USSR, 16501
Optometrists, employment outlook, 10862
Optometry:
grants for training program improvement and scholarships, law, summary, 4534
group practice facilities, financial assistance for constructing and equipping—
reports, 13188, 14388, 15987, 17202, 17241, 17336
summary of House bill, 13023
practice in District of Columbia, regulate, hearings, 7130, 11647
O'Quinlivan, Michael, Marine Corps in second World War, 9349
Oral diseases, *see* Mouth.
Oral English, planning and conducting conversation classes and discussion groups, 9754
Oral health, *see* Mouth.
Oral hygiene, *see* Mouth.
Orange, Thomas W.:
effect of cold reduction, etc., on tensile properties of nickle beryllium alloy at cryogenic temperatures, 4942
evaluation of special 301-type stainless steel for improved low-temperature notch toughness of cryoformed pressure vessels, 11067
Orange, Tex., area wage survey, metropolitan area, 13599
Orange juice, frozen concentrated, standards for grades, amdt., 5830
Oraztsov, Nicholas S., neotropical Microlepidoptera, 7, new genus Pseudomeritastis and its species, 6495
Orbits:
circular and elliptic, finite-thrust escape from and capture into, 15194, 16675
determination, use of short arcs, 7819
earth, torque requirements for orientation of solar Brayton system, 2427
equations of motion, integrating for use in space navigation, 16687
equilibrium shape of array of long elastic structural members in circular orbit, 7820
fine meteoric bodies, radiants, velocities, etc., measurements, USSR study, 2251
Keplerian motion, recursive computation of coefficients of time-dependent f and g series solution, etc., 6463
lunar—
simplified thrust-vector orientation technique for establishing, 6458
visual simulation of ability of pilot to establish, using simplified guidance technique, 15154
lunar satellite, orbital elements, estimating by using range and range-rate measurements, study of accuracy, 4911
near-earth, separation trajectory characteristics resulting from separating 2 vehicles, 2406
orbiting radiotelescope, large, preliminary design studies, 15070
orbital testing requirements for guidance and control devices, 4813
planetary parking, with examples for Mars, 4959
rendezvous and transfer problems, computational method, 13823
satellites, numerical theory of highly inclined orbits, 2408
spacecraft, determination with respect to object in known circular orbit, 15150

Orbits—Continued
testing requirements for guidance and control devices, 4812
Vinti's accurate reference orbit with inclusion of 3d zonal harmonic, computational procedure, 15170
Orcutt, John C., vapor reheat liquid-liquid heat exchange process, 14772
Orders, *see* names of departments, etc., issuing orders—*also* subjects.
Orders (sales):
anti-friction bearings, manufacturers unfilled orders, 16988
Ordman, Arnold, address, June 9, 1966, 11119
Ordnance:
and accessories, census of manufactures, 1963—
industry statistics, 8328
manufacturing plants, location, 11455
Coast Guard manual, 8408
timers, symposium, proceedings, 17979
see also Atomic ordnance—Fire control (gunnery).
Ore flotation, *see* Flotation.
O'Rear, J. G., analysis of acyl components of neopentyl polyol ester lubricants, 12425
Oregon:
Alsea River basin, water power and reconnaissance geology, 17727
census of business, 1963 wholesale trade, area statistics, errata, 205
climatological data, 2751
coast pilot supplement, 5534
congressional districts, 90th Congress, 15606
county business patterns, 237
electric rate book, 719
insect outbreaks, 787
land in Columbia River at the mouth project, retrocede jurisdiction to—
hearing, 13018
law, 11561
reports, 8742, 10180
life tables, 18045
log production, 4480
lower Columbia River radiological survey, 2537
manpower use in wood-products industries, 10603
manufacturing plants, location by county, industry and employment size, 1963 census, 16997
Midstate Soil and Water Conservation District, alfalfa harvest in high mountains (colored poster), 9696
mineral industry, minerals yearbook chapter, 1140
mineral resources of Mount Jefferson, primitive area, 10636
northwest, timber situation and outlook, 4479
operation of fish hatcheries, cost-sharing arrangements with Commercial Fisheries Bureau, GAO review, 6023
postal map, 13941
precipitation data, hourly, 3045
seed yields of perennial grasses, effect of diuron, 14163
water supply outlook and snow survey, 3692
western—
blacktail deer and Roosevelt elk, bibliography, 10616
phormium, anatomical and agronomic studies, 14150
spotlighting deer, potentials for management, 8962
Oregon Dunes National Seashore:
establish—
hearings, 518, 13217
reports, 8551, 8603, 13184
Ores:
and primary products, Federal item identification guides for supply cataloging, supplements, 2938
Ores—Continued
miscellaneous metal, census of mineral industries, 1963, industry statistics, 14261
Pacific belt, achievements of Academician S.S. Smirnov, USSR, 13549
see also names of metals or minerals.
Oresund, sailing directions, change, 12402
Organ Pipe Cactus National Monument, general information, 1334
Organic acids, in naturally colored surface waters, 12030
Organic chemistry:
progress reports of Organic Chemistry Section, 1299, 17944
reference materials, 1299
Soviet institutions, visits by Hungarian scientist, study trip, 9105
Organic Chemistry Section, annual reports, 1299, 17944
Organic compounds:
bulk water displacement from solid surface by organic liquid, 16756
determination of trace organic materials in water, 6065
industrial organic chemicals, census of manufactures, 1963, industry statistics, 8333
liquids, surface chemical displacement from solid surfaces, 12433
organic substances in water (series), 12030
solution systems for displacing organic liquids from solid surfaces, 16768
sulfur, mass spectra, 4788
synthetic organic chemicals—
production and sales, 5186
production, preliminary report, 3338
see also names of compounds.
Organic matter, in abyssal sediments of Black Sea, USSR study, 6149
Organisms:
human, oxygen utilization, 13849
human physiological principles of conditioning, USSR study, 10810
interaction in decay and discoloration in beech, birch, and maple, 8974
living, information theory relation, 972
microwaves effect on living organisms, USSR study, 1020
radiation injuries to, hypophysis and adrenals in presence of, USSR study, 4691
Organization:
medical, USSR study, 16469
problems, USSR scientific research, 16441
theory of, as independent branch of knowledge, 10772
see also Planning.
Organization charts:
Air Force, 2662
Army Department, 3036
Federal executive departments and agencies, 8776
Organization for Economic Cooperation and Development:
commission for stronger Atlantic Union, establish, hearings, 8772
expansion and interdependence, basic conditions for progress in achieving Atlantic Community growth (remarks), 2615
Organization in industry, Odesskaya oblast, centralized industrial administration, USSR study, 9131
Organization of African Unity, general information, 8036
Organization of American States, headquarters site, hearings, 11807, 17392
Organization of Congress, Special Committee on, Senate, *see* Congress, Special Committee on Organization of, Senate.
Organizations:
business, choosing various forms, administrative management course program, 2533

Organizations—Continued
coal research, worldwide activities and publications, 7686
community—
citizen participation in voluntary democratic associations, bibliography, 1396
focus on clean water, action program, 8932
contributions to which are deductible for income tax purposes, list, supplements, 2813
resolution of presidium of Supreme Soviet USSR on naming and renaming places and organizations, 950
USSR—
scientific, news, 13499, 13579–580
scientific work, 17777
see also Nonprofit organizations.
Organized labor, *see* Labor unions.
Organophosphorous compounds:
antidotes used for intoxications, Rumanian study, 14844
poisoning by insecticides, arterial pressure conditions at time, USSR study, 17775
synthesis of dialkyl triorganosilylmethoxymethyl phosphinates and their hydrolytic stability, USSR study, 6129
their action and methods of laboratory investigation, USSR study, 6120
toxic properties of V gases, Polish study, 13531
USSR studies, 6135
Organs:
body, radiation dose from inhalation or ingestion of soluble radionuclides, 15532
transplantation, excerpts from Russian-language book, 7594
vestibular, role in exploration of space, 6353
Orgueil meteorite, *see* Meteorites.
Orientation:
crystallographic, effect on friction characteristics of single-crystal beryllium in vacuum, 12358
disaster preparedness, manual for pharmacists, 5107
electroencephalographic changes under effect of tranquilizers, USSR study, 948
naval, 6534
seismometer designed for remote operation in random locations, 7761
Orifices:
curvilinear holes in physically nonlinear elastic plates, stress concentration, 4999
curvilinear reinforced, in shells, stressed state, near, 9548
Orinoco River and Valley, geography of delta, 13462
Ornithosis, *see* Psittacosis.
Orphans:
war orphans educational assistance program—
amend law—
law, 449
report, 1828
extend benefits to children of deceased or disabled Philippine veterans—
hearings, 16195, 17397
law, 17112
reports, 15867, 15878, 16134
Orr, P. W., forest insect conditions in Pacific Northwest, 10555
Ortega, James M., on discretization and differentiation of operators with application to Newton's method, 9442
Orthogonal functions, *see* Mathematics.
Orthopedics, plastics in, USSR study, 9075
Osborn, Ben O., soil conservation, official organ of Soil Conservation Service, 3521
Osborn, Dale J., hedgehogs and shrews of Turkey, 1325
Osborne, Thomas S., experiments with radiation on seeds, 5420–21
Oscillations:
Gemini configurations, stability in pitch and yaw, 1854
horizontal sinusoidal, effects upon performance of standing workers, 16671
liquid surface, in longitudinally excited compartmented cylindrical and spherical tanks, 13719
nonlinear, damping, 16709
subsonic jet-transport airplane, model, aerodynamic damping and oscillatory stability in pitch, 4918
traveling transverse, n-heptane vaporization in unstable combustor, analysis, 9537
Oscillations (electric):
hydrodynamic instabilities limiting power of boiling water reactors, 15530
Oscillators:
electronic super-high frequency, and plasma, USSR study, 13511
linear mechanical, maximum response to stationary and nonstationary random excitation, 4807
phase-lock loop swept-frequency synchronization, 17897
radio-frequency, measures of protection, therapy and prophylaxis to be taken during work with, USSR study, 915
Osen, Lars, rock bolts under combined loading, 16585
Oshkosh Motor Truck, Inc., President's E award for export excellence (remarks), 11523
Oskey, Rollo, relief, 16034
Oslen, Genevieve, relief, 471
Osmosis:
reverse—
design study of plant for sea water conversion, 9038
for water desalination, 852, 9042, 17739
membrane models, research and development, 4556
membranes, polyelectrolyte complexes, 6064
membranes, polymer systems, research and development, 4558
membranes structure and properties, 2114
saline water conversion, research, 7516
ultrathin membranes, fabrication and evaluation, 9039
OSO (Orbiting Solar Observatory), *see* Satellites.
Osteen, Fred M., relief, 10109, 14343, 16039
Osteoarthritis, prevalence in adults by age, etc., 15307
Osteopathic physicians, employment outlook, 10863
Osteopathy, grants for training program improvement and scholarships, law, summary, 4534
Oswalt, Noel R., filling and emptying system, Cordell Hull Navigation Lock, Tenn., 16251
Oswego, N.Y., principal electric facilities, map, 7374
Oteiza, Alberto, relief, 8716, 15677
Otepka, Otto, case, hearings, 586, 4229, 7224, 8782, 10357, 11821, 17588
Oths, Florence V., suggestions for lesson planning for manned space flight, Projects Mercury, Gemini, and Apollo, 6350
Otis, Leon S., animal research in psychopharmacology, 1431, 18069
Otitis media, aerotitis media in submarine recruits, 14992
Otoe Indians:
judgment funds, disposition—
law, 17144
reports, 4114, 5661, 17505
Otolaryngology, monaural vs. binaural discrimination for filtered CNC materials, 5330, 15491
Otoliths, role of vestibular organs in exploration of space, 6353

OTR series, 1295–96, 6476, 11093–95, 15208
Ottaway, Donald W., relief, 7072, 12815, 13119
Otto, Francis L., planning for safety on jobsite, 16517
Otto, N. E., aquatic weed control studies, 8010
Ouachita Mountains, forest-fire danger as related to airmass, 4456
Oudenhoven, Martin S., photoelastic study of internally stressed circular opening in biaxial stress field, 16571
Oudine, John A., all hands, Naval Personnel Bureau career publication, 2673
Our American Government, what is it? how does it function?, print as House document, reports, 17279, 17545
Our American way of life, 2110
Our Capitol, print as Senate document, reports 13003, 16075
Our flag, print additional copies as H. doc., reports, 10189, 16096
Our Government, 4543
Our Lady of Angels Seminary, stained glass, duty-free entry, 5573, 5721
Our United States, 6051
Outdoor recreation, *see* Recreation.
Outdoor recreation action (periodical), 17981
Outdoor Recreation Bureau:
  appropriations, 1967, hearings, 7113
  Federal focal point in outdoor recreation, 16774
  press releases, 3394
  technical publication, 11165
Outer Banks, N.C.:
  between Virginia State line and Hatteras Inlet, hurricane survey, engineer report—
    departmental edition, 17635
    document edition, 17166
Outer space:
  achievement of space, values and directions (lecture), 12379
  activities in science teaching related to, 15036
  activities of Federal departments, etc., investigation, authorization, report, 4174
  AEC space nuclear systems programs, hearings, 10092
  aerospace bibliography, 10974
  aerospace companies, backlog of orders, current industrial reports, 2818, 9962
  aerospace glossary, 9843
  aerospace safety (periodical), 2645
  aerospace technology, careers in NASA, guide, amdt., 5517
  Air Force aerospace defense objectives in peace and war, 101
  astronomy, 1958–64, significant achievements, 15080
  atom's future in space (address), 12687
  biological laboratory in orbit, USSR study, 6233
  Brayton-cycle space power system, radial-inflow turbine, cold performance evaluation, 4977
  code of Federal regulations, 8907, 10487–488
  comparative merits of radioisotope and machine sources of X-radiation for aerospace applications, 12682
  coordination of human voluntary movements during flight, USSR study, 7547
  EROS, Interior Dept. program to utilize space-acquired data for natural and human resource management, 16358
  exploration, etc.—
    man's impression of space, USSR study, 6242
    space suits, bioenergetics, 10975
  Gemini Midprogram Conference, including experiment results, 12282
  geophysics and space data bulletin, 3021
  human embarked, USSR study, 6227
  immunology, problems, USSR study, 4647
  industry, learning about space careers, 10972
  instruments and spacecraft, measurements survey, 13727
  interaction between space exploration, science, and technology (address), 1288
  international law studies, 9599
  introducing children to space, Lincoln plan for elementary schools, 12276
  living in space, 13721
  lunar exploration and science, NASA 1965 summer conference, 2371
  meteoric matter in interplanetary space, 1285
  missile and space ground support operations—
    hearings, 7148
    report, 7096
  missions, philosophy of simulation in man-machine space mission system, 10977
  multipactor breakdown in electronic systems, 12264
  national power and prestige in space, 13851
  nuclear energy in space (remarks), 5425
  orbiting research laboratory, medical aspects, Space Medicine Advisory Group study, 15079
  peaceful uses, conference proceedings, 13723
  philosophical speculations concerning life, USSR study, 6148
  photography of celestial bodies, photogrammetry, and photo interpretations, USSR study, 988
  planetary flight handbook, 9445
  propagation of radio waves, USSR study, 13461
  propulsion for deep space, 17886
  radiations of space (series), 1621, 5327
  research, agreement with Spain, 12538
  research, Czechoslovakia, 16435
  research developments, USSR studies, 9078
  research, investigation expenses, report, 4108
  research review, Office of Aerospace Research (periodical), 3471
  satellites and space probe projects, summary, Goddard Space Flight Center, 9389
  scientific and technical aerospace reports, 3492
    Government-wide index, 3025, 12759
    indexes, 3493
  Soviet block research (periodical), 3524
  Soviet space rockets, 2152
  space and International Cooperation Year, national challenge, 1192
  space flight handbook, 9445
  space jobs, booklet for elementary school children, 12275
  space radiobiology, training and operations, concept, 5299
  space research, All-Union conference on space physics, USSR, 9545
  space terms, short glossary, 12279
  space treaty proposals by United States and USSR, 13189
  speaking of space and aeronautics (series), 1288, 9551, 12379, 13851
  technical terms for aerospace use, dictionary, 1194
  telegrams through space, USSR study, 4634
  U.S. space industry trade mission on European aerospace industry, 4576
  United States space activities, report 1965—
    departmental edition, 5002
    document edition, 4070
  USSR program, developments, 14885
  vestibular organs in exploration of space, 6353
  see also headings beginning Space.

Outerwear:
children's census of manufactures, 1963, industry statistics, 8330
women's and misses', census of manufactures, 1963, industry report, 6894
Outgassing, *see* Degasification.
Outlet works, *see* Reservoirs.
Outlying possessions:
dutiable status of imports from insular possessions, amend tariff schedules, hearings, 13208
U.S. trade, monthly report, 3004
Outpatient services, *see* Clinics.
Output, *see* Production.
Ovens, industrial plant equipment handbooks, 7254, 8798
Overheim, Richard K., wholesale food distribution facilities for Montgomery, Ala., 11358
Overlay copy technique to provide high-contrast electron micrographs for metallographic analysis, 17921
Overlearning, *see* Learning.
Overruns (logs):
southern yellow pine, 14708
Overs, Robert P., sociological studies of occupations, bibliography, 1082
Oversea service:
communications and records, career opportunities, 2574
Defense Department's dependents schools, educators' opportunities, 4251
Federal jobs, 1760
Government employees, civilian, rotation, 524
information about jobs overseas, questions and answers, 13287
Overseas business reports, 339–347, 1772–74, 3304, 4004–15, 5550–52, 7006–11, 8430–33, 10023–30, 11513–521, 12771–786, 14323–327, 15045–651, 17055–58
Overseas notebooks, geography review (French periodical):
articles, translations, 9107
Overstreet, John M., ESSA world, 14578
Overtime, *see* Hours of labor.
Owens, James M., address, Sept. 28, 1966, 15562
Owens, Robert V., aerodynamic characteristics of spherically blunted cones, 2409
Owens, Rushia K., world trade in machine tools, 3871
Owens Lake, photosynthetic halophiles, 4818
Ownership, *see* Property.
Oxidation:
anodic, basic sulfates of lead, plate materials of lead-acid cell, 12429
bone marrow in oxidation of benzene, USSR study, 6147
diffusion-controlled char, effect on steady-state, ablation of plastic materials, analysis, 13847
graphite in high-temperature supersonic and hypersonic environments, 12343
high-manganese pig iron, recovery of manganese from slag, 6319
molybdenum at temperatures at which its trioxide is volatile, 6472
radiation-induced, hydrocarbons, 5396
resistant coatings on columbium alloy sheet, study, 7828
thermal, high polymers, literature survey, 8816
Oxides:
alkali, apparatus enables accurate determination of content in alkali metals, 13734
foamed refractory, improved thermal insulation materials made of, 13730
materials containing dispersed particles, secondary emission electron microscopy for examining, 16700
viscosity in molten salts, calculation, 7901
see also oxides by name, e.g., Ferrous oxide.
Oxidizer turbines, *see* Turbines.
Oxidizing agents:
plastics compatibility, 8817
rocket fuel oxidizers, fluorine and compounds, USSR study, 16473
Oximes:
neuromuscular blocking action of some new oximes, Rumania, 1018
spasmolytic action, Rumanian study, 14813
Oxley, J. E., improvement of zinc electrodes for electrochemical cells, 4832
Oxygen:
alkane-oxygen mixtures, detonation initiation, 15031
atoms, reaction with methane, mass-spectrometric investigation, 7883
carbon monoxide-oxygen reaction, ignition kinetics, 16706
concentration, determination by polarographic technic, 5334
desorption from sea water, 12048
determination in ferrous materials, SRM 1090, etc., 16714
determination in potassium—
accuracy of methods, 15135
neutron activation analysis procedures, 7744
direct determination of oxygen in coal, 9375
dissolved-oxygen analyzer for oceanographic use, final report, 12681
effects of 100% oxygen at reduced pressure on ignitibility and combustibility of materials, 3797
flight type partial pressure sensor, 15046
fluorine-oxygen and fluorine mixtures spilled on various materials, reaction characteristics, 7816
fluorine-oxygen mixtures, compatibility with polymeric materials, 12340
gaseous-hydrogen-liquid-oxygen rocket engines, nonmetallic ablative materials as nozzle sections, 9510
humans and animals, recent USSR studies, 7558
hydrogen-oxygen rocket engine, 20,000-pound, propellant injection velocity, effect on screech, 7884
increased partial pressure, testicular function in roosters and mice after exposure, 12631
liquid—
composite gaskets compatible, 15125
surfactant for dye-penetrant inspection is insensitive to liquid oxygen, 9461
molecular, densities from rocket measurements of Lyman-α absorption profiles, 6340, 9392
oxygen-hydrogen torch as steam generator, 9460
plant consumption rates, respirometer enables high resolution, 16629
potential of platinum electrode at low partial pressures, 17977
pressure, change in heart muscle, USSR study, 1027
production by algae, effect of light intensity and thickness of culture solution, 5075
thermodynamic and transport properties for nitrogen-oxygen system, 7851
utilization by organism and its regulation, 13840
verbal communication intelligibility in breathing mixtures of oxygen-helium at low atmospheric pressures, 8205
what do you know about oxygen? 7661
Oxygen masks, selected facial measurements of children for oxygen-mask design, 15555
Oxygenates, mass and infrared spectra, 17863
Oyster Bay, coastal wetlands, protect, etc., hearings, 14432
Oyster Bay, N.Y., population, special census, 5493

Oysters:
certified shippers, list, 2742
oyster-based economy of Franklin County, Fla., 6585
radiation pasteurization, 11430
what you should know about them, 2545
Ozark Mountains:
forest species compared in Ozark plantations, 4460
seeding shortleaf pine, 10592
Ozark region, Arkansas, Missouri, and Oklahoma, economic survey, 17615
Ozarks Economic Development Region, designation (remarks), 5559
Ozone:
effect on appearance and decay of strawberries, peaches, and lettuce, 16928
porous glass makes effective substrate for ozone-sensing reagent, 2383

P

P.A. report, 5905, 8869, 11905, 14583–584
P.H.A., *see* Public Housing Administration.
P.H.S., *see* Public Health Service.
P.P.C., series, 3305
P.R.B., *see* Public Roads Bureau.
P.R.L., *see* Personnel Research Laboratory.
PA series, 58–63, 1596–1602, 3762–64, 5295, 6762–75, 8152–65, 9826–32, 11365, 12611–612, 14147–149, 15457–460, 16935–939
PACAF basic bibliographies, 1619, 5319–22, 6804
PACE (Projects to advance creativity in education), *see* Elementary education—Secondary education.
Pacesetters in innovation, projects approved, title 3, supplementary centers and services program, elementary and secondary education act of 1965, 10429
Pacific area:
airman's guide and chart supplement (periodical), 3306
climatological data, 2751
PACAF basic bibliographies, 1619, 5319–22, 6804, 11377, 12627
South, mineral industry, regional review, minerals yearbook chapter, 6310
southwest, General MacArthur's campaigns in the Pacific, 14220
southwest, General MacArthur's leadership as commander, reports, 8260
Pacific basic bibliographies, 11377, 12627
Pacific Coast:
coast pilot—
Alaska, Cape Spencer to Beaufort Sea, supplement, 6986
Alaska, Dixon Entrance to Cape Spencer, supplement, 5535
California, Oregon, Washington, and Hawaii, supplement, 5534
fisheries, annual summary, 5961
light list, 14315
longshore industry, wage chronology, 9334
nautical chart catalog, 6989
North America and Asia, tidal current tables, 15638
North American, commercial clams, 10525
storm warning facilities chart, Canadian border to Eureka, Calif. and Alaska, 11314
transportation lines, 7330
Pacific Gas and Electric Co., wage chronology, 10874
Pacific Halibut Commission, International, *see* International Pacific Halibut Commission.
Pacific Island Trust Territory, *see* Trust Territory of Pacific Islands.
Pacific Islands:
lexicon of geologic names, 9008
light list, 14315
lights and fog signals, lists, change, 6522, 9582, 13895
Pacific Islands—Continued
mineral industry, minerals yearbook chapter, 17845
north and south, lights and fog signals list, change, 1337
sailing directions, changes, 12405, 16745
Pacific Northwest, *see* Northwest (U.S.).
Pacific Northwest Forest and Range Experiment Station, publications, lists, 3151, 5973
Pacific Ocean:
central and western, tide tables, 12764
central north, deep circulation, 12762
notice to mariners, 3279
ore belt, achievements of Academician S.S. Smirnov, USSR, 13549
radio navigational aids, changes, 1339, 5057, 9585, 13898
radio weather aids, 5058, 7961, 13899
vertical motion of waters in northern tropical and equatorial zones, USSR study, 2190
western, lights and fog signals, list, changes, 2481, 9583, 13869, 17970
Pacific slope basins, *see* Pacific States.
Pacific Southwest Regional Water Commission:
establish, hearing, 519
print additional copies, reports, 499, 561
Pacific States:
manufacturing plants, location by county, industry, and employment size, 1963 census, 16997
Pacific slope basins—
surface water quality, 6037, 12033
surface water records to Dec. 31, 1963, index, 2099
standard metropolitan statistical areas, facts for marketers, 8315
Packaged disaster hospitals, *see* Hospitals.
Packaging:
administration, Army field manual, 8253
converted flexible products, current industrial reports, 3920
dangerous materials, military aircraft transportation, Air Force manual, 8175
fair packaging and labeling act—
hearings, 15980–981
reports, 15928, 17321
fair packaging legislation, message from the President, 7068
Federal item identification guides for supply cataloging, supplements, 2934
industry report, 2795
information sources, 179
machinery, industrial plant equipment handbooks, 7256
materials—
Federal test method standard, 7424
flexible, transparent, 15208
packaging and packing operations, instructor's guide, Army Dept. pamphlet, 6842
pole beans in trays and polyethylene bags, prepackaging, 8129
prepackaged commodities, NBS manual for checking Spanish translation, 1291
produce at central warehouse, 1589
requirements code, military standards, 3200, 4257
sources of information, 8320
see also Packing.
Packer, Leo S., nomination, hearing, 16197
Packers, meatpackers' cost for fresh beef and pork, 625
see also Packing industry.
Packers and stockyards resumé, 3310
Packing:
carloading, instructor's guide, Army Dept. pamphlet, 6842
converted flexible packaging products, current industrial reports, 2817
egg-grading equipment, evaluation, 12607
materials, Federal test method standard, 7424
packaging and packing operations, instructor's guides, 610, 6842

Packing—Continued
preservation packaging of military supplies and equipment, DSA manual, change, 609
supplies, Federal item identification guides for supply cataloging, 2934
wrapping machinery, industrial plant equipment handbook, 7256
see also Packaging— *also* names of articles packed.
Packing industry:
packer feeding of cattle, volume and significance, 16930
packers and stockyards act, what it is, how it operates, 14148
packers and stockyards resumé, 3310
Paeng, Hye Suk, relief, 17438
Paeng, Mi Kyung, relief, 17438
Paez District, Miranda, geography, 13462
Pagaran, Sixto M., relief, 8696
PAIGH, *see* Pan American Institute of Geography and History.
Pails, steel shipping, current industrial reports, 2817, 11466
Paine, Rolf S., mining method, technique and cost of presplitting flood control gate shaft, Littleville Dam, 1110
Paint:
accessories, Federal standard, 4396
allied products, census of manufactures, 1963, industry statistics, 6902
commodity transportation survey, shipper series, 213
current industrial reports, 2817, 15587
Federal item identification guides for supply cataloging, supplements, 2937
Federal test method standard, 4397
paints, industry wage survey, 17812
synthetic, used for painting manufactured articles, occupational hygiene, USSR study, 1028
Painter, John H., unified S-band telecommunication techniques for Apollo, 9524
Painters:
automobile—
apprenticeship and training standards, 14201
employment outlook, 9210
employment outlook, 9218
production painters, employment outlook, 9237
supervisor, examination announcement, 9993
Painting:
aids, and accessories, Federal standard, 4396
procedures, tactical vehicles, tracked and wheeled, military standards, 11849
Paintings:
American, Mary Cassatt, 5-cent commemorative postage stamp (poster), 16782
Army history in Executive Corridor, Pentagon, 14213
Bartolomé Bermejo's Episcopal saint, study in medieval Spanish symbolism, 9651
vested German, transfer to Germany—
law, 17117
reports, 15921, 16154
Paints, *see* Paint.
Pakistan:
accessions list, Library of Congress American Libraries Book Procurement Centers, Karachi and Dacca, 3311
agricultural commodities, agreements, 15358, 16866
area handbook, 9897
economy, basic data, 11516
establishing business, 343, 15651
history, 12154
Library of Congress American Libraries Book Centers, Karachi and Dacca, annual list of serials, 17820
mineral industry, minerals yearbook chapter, 4772
Pakistan—Continued
nutrition survey of East Pakistan, 18066
special study mission, report, 7099
visit by Senate delegation, report, 5811
Palate, *see* Cleft palate.
Paleobotany, *see* Fossils—Plants, fossil.
Paleoecology, marine, late Pleistocene, in central California, 16361
Paleontology:
contribution to paleontology (series), 2104, 12023, 13409, 14752, 16361, 17721
micropaleontology of Mesozoic rocks of northern Alaska, 12017
Pliocene marine strata, Salinas Valley, 820
Paleozoic era:
formations in Wind River basin, Wyo., 17720
gastropoda from Moose River synclinorium, northern Maine, 17721
rock, lower metamorphosed, geology, northeast Maine, 4510
Palestine, problems, Soviet report, 17793
Palfrey, John G.:
remarks—
Nov. 16, 1965, 171
Mar. 1, 1966, 5424
Mar. 2, 1966, 5419
Palitz, Murray, flow conditions on forward fuselage of X–15 airplane, etc., 11069
Pallas, James E., jr., research in plant transpiration, 11366
Pallas, AIC 590, lunar chart, 8197
Pallets (materials handling):
hardwood, performance, effect of initial moisture content on, 14714
long travel shock pallets, modified models 230 and 570, for transportability rail instrumentation, 9916
market in steel industry for wood pallets, 17702
Palm Beach, Fla., port, 13294
Palm kernels:
duties on importation, suspension—
law, 8464
report, 5771
Palm oil:
duties on importation, suspension—
law, 8464
report, 5771
Palmetto Bend project, Interior Dept. report, 1795
Palo Verde Irrigation District:
lands held under color of title act, authorize Secretary of Interior to grant patents, hearings, 13218, 17585
location of Colorado River, establish, reports, 17235, 17530
Palumbo, Ralph F., radionuclide content of foodstuffs collected at Christmas Island and at other islands of Central Pacific during Operation Dominic, 8297
Pamphlets, copyrighted, catalog of copyright entries, 4238
see also names of departments, etc. issuing pamphlets—*also* subjects.
Pan American Institute of Geography and History:
participation of United States, appropriations, increase—
hearing, 11652
report, 12960
Panama:
birds, 8020
Colombia boundary, study, 8063
country law study, 16206
market factors, 12784
mineral industry, minerals yearbook chapter, 7688
sea level canal site, joint explorations and surveys, agreement, 12534
U.S. programs, observations, report, 15968
Panama, Bay of, sea-water samples, adsorption of surface-active material at surface of water, 6544

239–221—67—No. 863——30

Panama Canal:
appropriations, 1966, public works, law, 401
appropriations, 1967, hearings, 10229
inspection report, 10257
Isthmian Canal—
policy questions, etc., compilation of addresses, print additional copies, reports, 13004, 14462
studies, 1964—
construction of sea level canal across American Isthmus by nuclear methods, 152
excavation with nuclear explosions, 154
general construction plan, 157
nuclear excavation plan, 153
nuclear operations, 156
on-site survey program, 158
safety evaluation for air blast, ground shock, throwout, and dust, 155
sea level canal site, joint explorations and surveys, agreement, 12534
vessel tonnage measurement, customs regulations, 13242, 14513
Panama Canal Co.:
annual report, 6882
financial statements, 1965 and 1964, examination, GAO report, 8982, 10103
Panama Canal review (periodical), 3312
Panama Canal Zone. *see* Canal Zone.
Pancho Rico formation, Salinas Valley, Calif., 820
Panek, Louis A., calculation of average ground stress components from measurements of diametral deformation of a drill hole, 4801
Panel on Science and Technology:
7th meeting—
papers, 8682
proceedings, 5709
Panels and paneling:
aluminum viscoelastic, sonic fatigue characteristics, 9400
corrugation-stiffened and unstiffened, fluttter results, 7839
flutter, interchange adapter on Atlas-Centaur AC-2, AC-3 and AC-4 vehicles, 1240
flutter of multiple-streamwise bay rectangular panels at low supersonic Mach number, 15050
isotropic sandwich panels, supersonic flutter, 7818
legibility of electroluminescent instrument panels, 15095
orthotropic—
effects of side-edge boundary conditions and transverse shear stiffnesses on flutter, 7840
exposed to high supersonic stream flutter theoretical analysis, 13844
flat rectangular, supersonic flutter elastically restrained against edge rotation, 13819
paneling from low-grade hardwood logs, 10566
response to boundary layer pressure fluctuations, 10967
sandwich-panel-hung items, fastener distributes stress evenly, 1233
sandwich panels, vibrational characteristics in reduced-pressure environment, 15163
thermally stressed, flutter at Mach 3, and comparison with theory for panels with edge rotational restraint, 13817
truss-core sandwich cylinder loaded to failure in bending, test, 4916
Pankratz, Louis B.:
high-temperature heat content of lithium columbate, 17867
high-temperature heat contents and entropies of praseodymium oxides, etc., 12248
Pankrat, Louis B.—Continued
high temperature heat contents and entropies of zinc sulfides, etc., 2353
Pao, H. P., magnetohydrodynamic boundary layer between parallel streams of different magnetic fields and temperatures, 7748
Paone, James:
impregnated diamond bits drillability studies, 12244
inelastic deformation of rock under hemispherical drill bit, 16582
Papadima, Evangelia G., *see* Latsis, Evangelia G.
Papago Reservation, mesozoic rocks in Baboquivari Mountains, Ariz., 2090
Papell, S. Stephen:
buoyancy effects on critical heat flux of forced convective boiling in vertical flow, 16707
zero- and reduced-gravity simulation on magnetic-colloid pool-boiling system, 6452
Paper:
allied products industry, employment outlook, 9308
bamboo, papermaking characteristics, 14164
converted paper and paperboard products, except containers and boxes, census of manufactures, 1963, industry statistics, 8331
current industrial reports, 262, 2817
Government specification standards, 3024, 4154, 15998
industry—
employment outlook, 9308
report, 3433
newsprint, world supply-demand, outlook through 1968, report, 17256
paper and allied products, census of manufactures, 1963, manufacturing plants, location, 11454
see also Tissue type paper—Wood pulp.
Paper bags, *see* Bags.
Paper mills, census of manufactures, industry report, 3891
Paper pulp, *see* Pulp—Wood pulp.
Paperboard:
current industrial reports, 2817
industry report, 3433
products, except containers and boxes, census of manufactures, 1963, industry statistics, 8331
see also Pulpboard.
Paperboard boxes, *see* Boxes.
Paperboard containers, *see* Containers.
Paperboard mills, census of manufactures, industry report, 3891
Paperhangers, employment outlook, 9218
Papers, *see* Records.
Paperwork (office practice):
engineer and paperwork, USSR study, 940
Federal Government paperwork, hearings, 11674
forms management, Navy Department guide, 12443, 16772
how to cut paperwork, report, 17257
small store and service trade, recordkeeping systems, bibliography, 1458, 9643
Papua, mineral industry, minerals yearbook chapter, 6297
Paraboloids, thermal distortions of thin-walled paraboloidal shells, 15161
Parachutes:
airdrop, supplies and equipment, general, technical manual, change, 15517
disk-gap-band, for low dynamic pressure applications at ejection altitudes at or above 200,000 ft., 10968
Gemini landing system, 12364
jumping, Federal aviation regulations, 692
landing simulator, 4437
lofts, Federal aviation regulations, 14615
Parachutists, nylon shock absorber prevents injury, 6404

Paraffins:
alkane-oxygen mixtures, detonation initiation, 15031
flammability properties of n-alkanes in air, 5071
Paraguay:
amateur alien radio operators, authorization to operate, agreement, 11277
military assistance, agreement, 15359
mineral industry, minerals yearbook chapter, 7691
Parahydrogen, *see* Hydrogen.
Paralichthys dentatus, *see* Flounders.
Parallel line raster eliminates ambiguities in reading timing of pulses, etc., 15116
Paralyzed Veterans of America, legislative recommendations, 1966, hearings, 8685
Paramagnetic resonance, *see* Magnetic resonance.
Paramagnetism, *see* Magnetism.
Parameters:
amplifier, ultra-low-noise 1700-Mc parametric system, 7859
cold stress, effects, mitigation, 82
electrical, of precision, coaxial, air-dielectric transmission lines, 12385, 15207
flight, and vehicle performance for Project Fire flight II, 15176
ionospheric, derived from Echo 11 radar returns during solar minimum conditions, 12442
large capacitor performs as distributed parameter pulse line, 13731
lumped, used in bending modes, beam and plate vibration, mathematical model, 9518
operating, of omegatron mass spectrometer in ultrahigh vacuum, 4908
physical, determination of viral aerosols, USSR study, 17764
random varying, radiocommunication channels theory, USSR study, 10771
single testing application, 2362
system performance, human transfer functions used to predict, 15109
tracking systems, research, 9425
Parapercis kamoharai, Japan, new fish, 11225
Parapsychology, contemporary, evaluation, USSR study, 12091
Parasites:
aphid, portable field cage for mass culturing, 9774
copepod crustaceans parasitic on elasmobranch fishes of Hawaiian Islands, 9567
cowbirds, host relations, 18095
endoparasites of laboratory animals, 6809
freshwater fish, 11968, 14652
hosts, subject catalogue, 16918
of minks, general information, 28
subject catalogue, 5274, 8133
Parasitic plants, *see* names of parasitic plants, e.g. Witchweed.
Parasitology:
medical and veterinary, history, USSR articles, 7625
scientific careers in Agricultural Research Service, 53
veterinary, 20 years in Hungary, 999
Parawings, *see* Wings (aircraft).
Parcel post:
agreement with Philippines, 5164
legislation (H.R. 12367) requested by Postmaster General, 5702
see also Postage.
Parents:
adoptive parents, experiments with, after adoption, 280
around the corner, views to prepare high school students for tomorrow's world, 14030
babies look and learn, guide, 6772
babies touch, taste, and learn, guide, 6771
books for children, guide, 9827
children learning through touch, guide, 9830
Parents—Continued
deceased veterans—
income limitations under dependency and indemnity compensation program, increase, hearings, 8684
liberalize payments, reports, 10135, 16076
helping parents teach young children, guide for home economics program assistants, 8162
learning different shapes, games for children over 2 years old, guide, 8165
of handicapped children, hospital-based education project, 1741
of mentally retarded child, social security, what it means, 15329
parents and teenagers, guide, 6774
participation in head start child development centers, 4275
play games with baby, guide, 6770
talk and listen, guide, 8163
talk with baby, guide, 6773
teaching children with circles, guide, 9828
see also Families.
Paret, Peter, innovation and reform in warfare, 14166
Parisot, Thomas J., fish mycobacteriosis (tuberculosis), 11971
Parity, *see* Prices.
Park, Pil Su, *see* Barker, Richard P.
Park County, Mont., geology and coal resources, 12025
Parker, Evelyn E., cancer chemotherapy reports, 2726
Parker, James E., jr., development of tests for measurement of primary perceptual-motor performance, 4805
Parker, John G., zirconium and hafnium, 15034
Parker, Lee W.:
computer program for calculating charge distribution about space vehicle, 6346
electron collection by spherical satellite in earth's magnetic field, 17877
Parker, Michael L., civil rights act of 1964, 833
Parker, R. E., cherry firmness and its relationship to pitter loss, 14105
Parker, Richard J., rolling-contact lubrication studies with polyphenyl ethers at reduced pressures, 4909
Parker, Russell C., food manufacturing structure, 16731
Parker River National Wildlife Refuge, general information, 16302
Parking Advisory Council:
establish—
hearings, 5803
report, 10305
Parking Board, D.C.:
establish—
hearings, 5803
report, 10305
Parking of vehicles:
facilities, establishment in D.C.—
hearings, 5803
report, 10305
Parkinsonism:
Parkinson's disease—
present status and research trends, 18063
progress in research, summary, 1316, 18074
Parks, park and recreation programs, changing intergovernmental and interagency relationships (remarks), 9601
see also Industrial parks—National parks—Research parks.
Parliamentary conferences, *see* Mexico-United States Interparliamentary Group.
Parliamentary practice, rules of procedure, Select Committee on Standards and Conduct, Senate, 13231
PARM (program analysis for resource management), *see* Electronic data processing systems.

Parody, Ovid F., big ideas for small schools, 7298
Parole:
parole decision-making—
alcoholic offender, 12566
narcotic use, control and treatment, 14079
personal characteristics and parole outcome, 14080
sentencing and parole process, 14081
violent offender, 14082
parole series, 12566, 14079–82
Parolees, under supervision of Federal probation system, 14098
Parotid fluid, *see* Saliva.
Parra, Juan F. A. Lamas y, *see* Lamas, Juan F. A.
Parsons, C. L., IMP–I magnetic test program, 7885
Parsons, Edward W., explosive-expansion center-hole anchor, 4791
Parsons, Ralph M., Company, conceptual design of desalination plant, 6059
Participation sales act, *see* Credit.
Particle accelerators, *see* Accelerators
Particle board, *see* Pulpboard.
Particles:
aggregation in snowstorms, 9889
airborne, size analysis, bibliography, 12680
atmospheric, settling rate, USSR study, 14911
cloud, heat transfer to gas, 1185
measurement of natural particulate fallout onto high polar ice sheets, laboratory techniques and results, 8235
micron-size, accelerating in shock-tube flows for hypervelocity degradation of reflective surfaces, 4934
nonadiabatic losses in axisymmetric and multipolar magnetic fields, 2437
particles and fields research, bibliography, 12291
single particle energy levels and wave functions in nuclear structure calculations, Fortran program, 16720
size, classifying radioactive aerosols, 1381–82
size of fire fighting dry chemicals, measurement, 1367
solar energetic particles, etc., 1958–64, significant achievements, 7755
spectrum determination by transparency method for large particle concentration, 16410
spherical, small, drag coefficient, shock tube determination, 7739
Partitions, movable, Army technical manual, 12660
Partners of the Alliance, 11653
Parts, *see* Repair parts.
Pascal, Anthony H., address, June 2, 1966, 10020
Pase, Charles P., shrub seedling regeneration after controlled burning and herbicidal treatment of dense pringle manzanita chaparral, 2072
Pasma, Theodore, K., characteristics of 63 modern industrial plants, 16216
Passaic, N.J.:
area wage survey, 16530
commodity transportation survey, production area series, 8342
Passaic River:
engineer report—
departmental edition, 17634
document edition, 17169
Passenger cars, unauthorized acquisition of passenger vehicles, Bureau of Indian Affairs, GAO report, 811
see also Automobiles.
Passenger ships, *see* Ships.
Passenger traffic, U.S. and foreign countries, 3467
Passenger trains, *see* Railroads.
Passenger vessels, *see* Ships.
Passengers, travel between U.S. and foreign countries, 3467, 12038
Passey, George E., perceptual-psychomotor tests in aircrew selection, historical review and advanced concepts, 14184
Passports:
and right to travel, study, 17378
application requirements, care, etc., 15339
information for applicants, 6634
summary of statistics, 3560
United States, fees charged by foreign countries for visa, list, 8060
Paste:
dental prophylaxis, performance of stannous fluoride-zirconium silicate, 8208
electrode, provides reliable measurement of galvanic skin response, 6375
Pasternack, Morton, biasing effect of random bit errors on binary telemetry data, 16652
Pasteurella, nucleotide composition of deoxyribonucleic acid, USSR study, 10831
Pasteurization:
fishery products with gamma rays from cobalt-60 source, 4407
irradiated-pasteurized fishery products, study, 15539
irradiation of seafoods, effect on microbial flora surviving, 5411
milk, equipment testing procedures, 15298
radiation—
foods, 5th annual contractors meeting, 5387
Pacific crab and flounder, 11437
shrimp and oysters, 11430
Pasture crops, *see* Forage plants.
Pasture lands:
Appalachian hillside, basic information, 12606, 15447
dairy, 1965 season, summary, 1507
Kansas and Oklahoma, bluestem and Osage pasture, report, 15375
Patent draftsmen, *see* Draftsmen.
Patent examiners:
manual of procedure, 3177
change notices, 1390–91, 5079, 7982
errata, 2505
revised pages, 1392, 7983, 11169, 13914
Patent Office:
and technological progress (address), 15256
annual report, 5078
attorneys and agents registered to practice before, lists, 12448, 17982
classification bulletins, 6559–60, 9604, 11166
decisions, yearly 1965—
departmental edition, 9605
document edition, 8487
official gazette, 3288
patents, laws, investigation, authorization, report, 4195
plans, program and progress (address), 13915
press releases, 3395
rules of practice, 5080
trademark rules of practice with forms and statutes, 17987
trademarks, index, 11167
Patents:
and spread of technology (address), 17059
appeals cases adjudged, 16204
Australia, protection, laws, etc., 345
basic facts, information aid for inventors, 15257
cases, rules of practice, 5080
chemically modified oil products and industrial uses, 9785
classification, 3288
index, 17984
manual, 3176
replacement pages, 2504, 7981, 11168, 17985–986
classification systems, development and use, 9606
code of Federal regulations, 10506
Colombia, protection, laws, etc., 14326

Patents—Continued
composition of oilseeds, list, 9782
decisions, weekly, 3288
decisions, yearly 1965—
departmental edition, 9605
document edition, 8487
documentation and dissemination problems (address), 15256
Eastern Utilization Research and Development Division, list, 3737, 15437
economic growth and patent system (address), 1389
examining procedure, manual, 3177
change notices, 1390–91, 5079, 7982, 12447
errata, 2505
revised pages, 1392, 7983, 11169, 13914
general information, 7979
Government policy, hearings, 1945
imperative of international patent cooperation (address), 17983
in official gazette, 3288
index, 7980
industrial uses of proteins, list, 9786
infringement, amend U.S. Code as to use by or for U.S. of valid patents, hearings, 4228
laws, 2506
Northern Utilization Research and Development Division, list, 5275
Patent Office highlights and activities (address), 13913
Polish, abstracts, translations, 3585
progress of industry through patents (remarks, 17061
publications, price list, 5099
Southern Utilization Research and Development Division, semiannual list, 6717
soybean protein products, edible, list, 9784
Swiss, abstracts, translations, 3586
United States and world patent situation (address), 1393
waiver petitions, findings of fact, etc., of NASA Inventions and Contributions Board, 7904
Western Utilization Research and Development Division, semiannual list, 8136
see also Inventions.
Paterson, H. B., measurement of particle size of fire fighting dry chemicals, 1367
Paterson, N.J.:
area wage survey, 16530
commodity transportation survey, production area series, 8342
Pathet Lao, declaration by Voice of Pathet Lao radio, 6167
Pathfinder operations, Army field manual, 8254
Pathogenesis, goiter disease, cortico-visceral theory, USSR study, 13483
Pathologist:
forest and forest products, examination announcement, 14307
speech, employment outlook, 9277
Pathology:
cardiovascular system and respiration, USSR scientific research, 6119
climate effect on cardiovascular system, USSR study, 4622
occupational, USSR study, 12140
viable human tissues, processing and storage, 16808
Patients:
aging, disease detection in persons over 45, office evaluation, 16806
better care, 2 decades of partnership, Hill-Burton program, 13973
characteristics, selected types of medical specialists, etc., 9632
Clinical Center, NIH, referral procedures, 18001
discharged from Public Health Service hospitals, diagnostic and demographic data, 1416
discharged from short-stay hospitals, statistics, 18081
Patients—Continued
female psychiatric, sociocultural and clinical study of Rutland Corner House, transitional aftercare residence, 1529
hospital environment of research, education, and consultation, 16801
mental, hospitalized mental patients and outcome of hospitalization, relationship between selected social and demographic characteristics, 2460
mental hospitals, State and county patient movement, etc., 5029
mental hospitals, statistics, 5122
mental institutions, 13982
mental, social, readjustment, studies, 16404
provisional patient movement and administrative data, public institutions for mentally retarded, 1965, United States, 6484
return to community, guide for voluntary service program, 11306
St. Elizabeths Hospital, pay for care, need for improved procedures, GAO report, 6012
surgical bill paid by insurance, proportion, 15306
Patman, Wright, portrait presentation, print proceedings, report, 10193
Patrick Air Force Base:
supply management—
hearings, 4123
subcommittee report, 5685
Patten, Benjamin G., Bureau of Commercial Fisheries, electrofishing shocker, its characteristics and operation, 13348
Patten, Charles W., dry electrodes for physiological monitoring, 11052
Pattern synthesis problem for slotted infinite cylinder, 9422
Patterns:
alteration, guide for leaders in clothing programs, 1586
progress in aging, case study (series), 5260
tooling, cork used, 13763
Patterson, James L., floods of Colorado River basin, 6038
Patterson, John S., remarks, Mar. 24, 1966, 7370
Patton, James G., citation of appreciation, presentation (remarks), 9836
Paulden quadrangle, Ariz., geology, 818
Pauley, Harry R., nomination, hearing, 17594
Pauli, Frank A., television capabilities for making navigational measurements, 7875
Paull, Stephen, low power nanosecond pulse and logic circuits using tunnel diodes, 15168
Pauling, John R., new crop varieties, 5929–31
Paulsen, Frederick G., Navy satellite navigation system, 16617
Paulsen, Paul J., spark source mass spectrograph program, 7920
Pavements:
airfields—
basis for rigid pavement design for military aircraft, 11894
evaluation, technical manual, change, 5371
flexible, evaluation, engineering and design, technical manual, change, 5372
Navy design manual, changes, 1569
rigid, evaluation, technical manual, 131
flexible, CBR (California Bearing Ratio) design curves, set, developing, errata, 677
Pavlides, Louis, geology of Bridgewater quadrangle, Aroostook County, Maine, 4510
Pavlodar, Kazakh SSSR, tractor production to begin, USSR study, 9152
Pavlov, S. P., speech, 1965, 4685
Pawcatuck River and Valley, upper basin, ground water availability, 17730

Pawtucket, R.I.:
area wage survey, metropolitan area, 12214
commodity transportation survey, production area series, 8339
Pay, *see* Salaries—Wages.
Pay, allowances, etc.:
accrude-leave payments to reenlistees, improvement in administrative audit by Finance Center, Army, Fort Benjamin Harrison, Ind., GAO report, 2082
Air Force—
airman's pay guide, 5311
officer's pay guide, 3789
basic pay of uniformed services, increase, report, 12930
combat pay, exclusion for commissioned officers in combat zones, increase—
message from the President, 17162
report, 17307
dependents of members of uniformed services evacuated from danger area—
law, 15775
reports, 12965, 17492
erroneous payments to military personnel for storage of household goods, report, 12954
officers, professionally trained, constructive service credit application, report, 12863
per diem, to Air Force personnel, improved controls, to GAO report, 13377
per diem, to Coast Guard members assigned to Reserve Training Center, Yorktown, Va., refunds, payment to estate, report, 12952
relocation costs, payment rather than subsistence allowances, GAO report, 8987
shore patrols, management control improvement, Navy Dept., GAO report, 2084
taxable income and tax withholdings of military personnel, reporting, GAO report, 13382
temporary lodging allowances, Coast Guard members, transfers between permanent duty stations, review, GAO report, 12001
travel, etc., allowances, extend 1-year traveltime for retirees, etc.—
law, 17146
report, 17510
travel, uniformed services members, reimburse for cost of parking fees, ferry fares and bridge, road and tunnel tolls, reports, 11628, 12922
uniformed services, text of title 37, U.S. Code, etc., 7125
Payloads:
optimization of multistage launch vehicles, 4938
reentry flight, Project Fire 1, angle-of-attack analysis, 7879
Payments:
St. Elizabeths Hospital, pay for care, need for improved procedures, GAO report, 6012
timing for Federal grants, contributions and other programs, regulations, 14048-49
U.S. international payments, 2029
see also Incentive payments.
Payne, Harley H., soil survey of Morgan County, Ga., 5149
Payroll savings, *see* Saving bonds.
PCA, *see* Production credit associations.
PCM, *see* Radio pulse code modulation.
PCM (pulse code modulation) telemetry, *see* Telemetry.
Pea Island National Wildlife Refuge:
birds, list, 16304
general information, 10534
Peace:
costs of world peacekeeping, report, 7104
food for peace—
act of 1966, reports, 14467, 15927, 17338
activities under Public law 480, 14383
from people of United States, 15461
newsletter about activities under PL 480, 2983
initiative for peace (statement), 18118
movements, Communist exploitation and infiltration, problem, staff study, 1885
Navy, keeping the peace, 16749
United Nations peacekeeping operations, controversy over financing, report and hearings, 10181, 10243
unseen search for peace (address), 1491
water for peace, international conference, organize and hold in U.S., 1967—
hearings, 13035
report, 12959
Peace Corps:
act, amend—
analysis, 13037
hearings, 13035
law, 15748
Ramseyer rule print, 14420
reports, 12977, 16103
annual report, 12449
appropriations, 1967—
amendment, 11611
hearings, 13014, 17568
reports, 15915, 16159
biographic register, 12520
director, nomination of Jack H. Vaughn, hearing, 5808
engineering, 5081
field staff, Foreign Service list, 2992
foreign assistance appropriations, 1966, report, 545
goes to paradise, Trust Territory of Pacific Islands, Micronesia, 9609
health guide, volunteers manual, 9607
home economists, general information, 2507
labor, 9608
Peace Corps volunteer (periodical), 3314
physical education, 5082
press releases, 3396
program, agreement with—
Barbados, 2590
St. Lucia, 5171
trade & technical skills, 9610
volunteer, quarterly statistical summary, 3315
volunteers in—
Asia, 12450
Far East, 12451
Latin America, 12452
volunteers, opportunities in Federal civil service, 15632
Peaceful uses of earth-observation spacecraft, 16602-604
Peaceful Uses of Space, National Conference on, *see* National Conference on Peaceful Uses of Space.
Peaches:
appearance and decay after treatment with ozone, 16928
eastern-grown, shipping containers, evaluation, 6756
production, use, value, 1964-65 by States, 15379
Peacock, Richard D., Panama Canal review, 3312
Peak, George W., water supply outlook and Federal-State-private cooperative snow surveys for Wyoming, 3696
Peanut butter, FDA final standard, 2049
Peanuts:
ASCS programs, 6781
handling, shift from bag to bulk in Virginia-North Carolina area, economic implications, 9822
market news, weekly report, 3316

Peanuts—Continued
marketing quotas referendum, Nov. 23, 1965, 63
outlook in 1965–66 (talk), 4292
stocks and processing, 3317, 16871
Pearcy, G. Etzel:
geographic aspects of struggle in Vietnam, 15340
mainland China, geographic strengths and weaknesses, 18117
Pearl, Robert B., current population survey of U.S., origin, methods and evolution, 15593
Pears:
entering Netherlands, certification for possible transshipment, 12586
Kieffer, for home use, 11353
production, use, value, 1964–65 by States, 15379
Pearson, Gregory L., water supply outlook and Federal-State-private cooperative snow surveys for Utah, 3693
Pearson, Richard G., radar air traffic control research task, 9937
Pearson, Walter E., computing nonequilibrium channel flow of multicomponent gaseous mixture in near-equilibrium region, 6460
Peas:
canned, shopper's guide, 14149
control insects that attack in storage, 6740
market diseases, 16920
Peat:
frost penetration and trafficability as affected by snowpack and surface mosses, 5981
minerals yearbook chapter, 16568
Peat bogs:
confined organic terrain (muskeg), trafficability tests, 5890
construction in muskeg, summary and compilation of current practice, 3819
Peay, Walter E., sugarbeet insects, how to control them, 9817
Pecot, Rebecca K., proximate composition of beef from carcass to cooked meat, method of derivation and tables of values, 3752
Pedagogy, *see* Education.
Pediatrics, *see* Children.
Peer ratings, *see* Ratings.
Peerboom, Pearl, vocational rehabilitation of the disabled, public program, 7499
Peet, Charles S., implications of reduced defense demand for electronics industry, 110
Pegasus, *see* Satellites.
Pegmatite:
Georgia, selective flotation of mica, 16575
reconnaissance, beryllium bearing deposits in 6 Western States, 13682
Pegram Nuclear Physics Laboratories, progress report, 8287
Pelagic fur seal investigations, 5964
Pelecus cultratus (L), *see* Carp.
Peller, Martin, L., trends in R & D manpower in pharmaceutical industry, 11112
Pellets, iron ore, mechanical strength at elevated temperatures, 13696
Pellini, W. S., fracture-safe design of complex welded structures involving metals, etc., 1379
Penaeid shrimps, *see* Shrimps.
Penal institutions, *see* Prisions and prisoners.
Penalties:
civil, reduce in connection with imparting or conveying false information, report, 1913
estate tax deficiencies—
law, 5584
reports, 5636, 5755
intercoastal shipping act violations, equalize, report, 1916
thefts from pipelines, report, 17246
Penalver, Rafael A., relief, 16004
Penetrometers:
soil penetrometer, with extendable mast, 7800
use to determine capability of dust materials to support bearing loads, 4946
Penicillin, anaphylactic shock with lethal outcome from intradermal test, USSR study, 9127
Penilia avirostris, *see* Water fleas.
Penitentiaries:
national, study—
authorization, report, 4194
report on findings, 8727
Penland, Jim A., effect of body nose blunting, control planform area, and leading-edge control of 5° semivertex cone, 12346
Penn Hills Township, Pa., population, special census, 11473
Pennants, *see* Flags.
Pennsylvania:
anthracite mine, longwall mining, use of shearer loader, 7713
census of business, 1963—
retail trade, area statistics, 190, 9949
wholesale trade, area statistics, errata, 206
climatological data, 2751
county business patterns, 1729, 5469
electric rate book, 11929
life tables, 18046
manufacturing plants, location by county, industry, and employment size, 1963 census, 14255
mineral industry, minerals yearbook chapter, 2340
Northumberland County Soil and Water Conservation District, watershed protected (colored poster), 9697
postal map—
eastern section, 13942
western section, 13943
precipitation data, hourly, 3045
women, labor laws, summary, 14092
Pennsylvania Avenue Commission:
establish—
hearings, 11662, 11812
reports, 11623, 11739
Pennsylvania Avenue National Historic Site:
administration and development—
hearings, 11662, 11812
reports, 11623, 11739
Pennsylvania coal, *see* Coal.
Penobscot River, water resource appraisals for hydroelectric licensing of basin, planning status report, 4386
Pensions:
Air Force—
airman's retirement and other benefits, guide, 5311
officers, retirement and other benefits, guide, 3789
Army and Air Force Reserve officers, active duty retirement benefits, GAO report, 13378
Army, Navy, and Air Force, waive limitations for increased pay claim—
law, 8471
report, 1923
automation, and people (remarks), 9562
characteristics of 163,500 plans, July 1, 1965, statistics, 2287
code of Federal regulations, 10495
dependency and indemnity compensation to widows for service-connected deaths of their husbands, amend U.S. code, report, 17203
District of Columbia police, etc., equitable treatment for older disabled retirees, report, 15853
District of Columbia teachers, increase—
law, 11590
report, 8743
Lighthouse Service employees' widows, increased annuities, report, 17547
Lighthouse Service, increase, hearings, 8674

Pensions—Continued
plans—
salaried employees, summer 1965, digest, 9330
self-employed individual, contributions, amend internal revenue code, report, 10174
private plans—
benefits, 14978
hearings, 14373
public employee retirement systems, benefits and beneficiaries, 9657
publications, price list, 7986
revocation of retired pay of members of Armed Forces, limit—
law, 17139
reports, 12936, 17511
trust funds, participation of retired employees, etc., hearing, 17590
trusts, tax exemption, procedures and qualification under internal revenue code, 14779
uniformed services retirement pay, election of annuity for survivors, income tax treatment—
law, 5590
report, 5768
union welfare-pension funds of Allied Trades Council and Teamsters Local 815, diversion, report, 13138
veterans—
deceased, dependency and indemnity compensation program, income limitations applicable to parents, increase, hearings, 8684
disappeared, payment to wife and children—
law, 11576
reports, 10130, 11751
enlisted men, credit inactive Reserve service, reports, 11627, 15858
non-service-connected—
legislation, hearings, 13063
veterans pension act of 1966, reports, 15902, 17556
readmitted for hospitalization, restrict conditions for reduction—
law, 5587
reports, 4085, 5767
service-connected death, liberalize payments to parents and children, reports, 10135, 16076
service-connected disability, increase rates, law, 413
Vietnam era readjustment assistance act—
hearing, 16185
report, 17552
widows, dependency and indemnity compensation, increase—
law, 11575
reports, 10127, 11750
welfare and pension plans disclosure act—
administration, 1965, report of Secretary of Labor, 7639
amend with respect to filing of copies and making affidavits, report, 15896
regulations and interpretative bulletins, 14963
see also Civil service pensions.
Pentaerythritol, NMR analysis of mixed pentaerythritol dipentaerythritol, and trimethylolpropane esters, 1383
Pentagon Building, Army history, painting exhibit in Executive Corridor, 14213
Pepoon, Albert M., relief of widow, 17418
Peppers, bacterial soft rot in bell peppers, cause and commercial control, 6757
Peptic ulcers, *see* Ulcers.
Peptides, surface chemistry of polypeptides, 16755
Pequop Mountains:
discussion of high concentrations of zinc, lead, and mercury in Guilmette Formation and Simonson Dolomite of Devonian age, 16355
geochemical reconnaissance, 16355
Perception:
depth problems, method of simulating objects moving in depth, 9938
detection in homogeneous visual field under condition of infinite depth of focus, 2490
induced color, effect of exposure time, 13660
induced motion analysis, 7973
occupational peculiarities of perception of one human being by another, USSR study, 7569
passive environmental sensor, use in testing sensitivity to stimulation, 3784
pitch discrimination, practice effects, 11155
red and green at various retinal positions, effect of luminance, 13662
red-green and yellow-blue mixtures, effect of stimulus duration, 13663
tachistoscopic, effects of induced muscle tension and auditory stimulation, 9594
visual detection of point source targets, 15065
see also Sight—Tactual perception.
Perceptron, synthesis and application, USSR studies, 14916
Perceptual-motor performance, *see* Ability.
Percidae, breeding tubercles, systematic significance, 2467
Perennials:
flowering, growing, 14138
grasses, effect of diuron on seed yields, 14163
Perez, Felix H., *see* Hurtado, Felix P.
Perez, Ortello R., *see* Rodriguez Perez, Ortello.
Perez de Gonzalez, Hilda W., relief, 15828, 16058, 17077
Performance (psychology):
decompression effects on operator's performance, 11448
early decrement in primates following pulsed ionizing radiation, 1622
effects of knowledge of results on 6 uninterrupted hours of monitoring, 3794
performance upon sudden awakening, 97–98
Performance ratings, *see* Efficiency ratings.
Performance, story of the handicapped, 3319
Performance tests, *see* Air cushion vehicles—Mental tests.
Performing arts, occupations, employment outlook, 9257
Perinatal mortality, *see* Death.
Periodicals:
Army Library, selected literature, list, 3508
census of manufactures, industry report, 3892
copyrighted, catalog of copyright entries, 595, 4238
currently received in Army Library, checklist, 12577
Federal Fire Council, list received, 4509
Government, price list, 5097, 9621, 13950, 17995
magazine reprint MR series, 3173
military, Air University Library index, 2664
National Bureau of Standards Library, 12384
received in NIH Library, 9559
Periodontal disease:
adults, 1960–62, U.S. examination and criteria, etc., 1439
glucose tolerance responses in young adults, 6815
saliva protease levels in relation to periodontal status in man, 11381
status of incoming Air Force Academy cadets, 15493

Perishables, *see* Agricultural products.
Perkins, L. Z., navigation channel improvement at Bonneville Dam, 11890
Perkins, Melba B., claim against U.S., 12872
Perlee, Henry E.:
flammability characteristics of—
selected halogenated hydrocarbons, 9371
trichloroethylene, 9385
Perley, Clarence W., classification, class J, political science, 13652
Perlite, minerals yearbook chapter, 15020
Permacrete, *see* Concrete.
Permafrost, mechanics of penetration of piles, 8245
Permanent Engineering Board, cooperative development of water resources of Columbia River basin, administration and procedures, agreement with Canada, 2584
Permanent Subcommittee on Investigation, *see* Government Operations Committee, Senate.
Permeability:
protective clothing to insecticidal phosphoric-acid derivatives, East German study, 1037
two- and 3-phase relative studies, 15027
Permeability (magnetic):
small ring sample in toroidal coil, computation, 6479
Permian period, new genus of seed-bearing callipteridd plants from Permian of north-central Texas, 14752
Permits, *see* subjects for which permits are issued.
Permittivity, small ring sample in toroidal coil, computation, 6479
Pernas Beceiro, Daniel, relief, 16015
Perreault, John O., sources of assistance and information, administrative management, 6599
Perrin, Richard, W. E., Wisconsin architecture, 13882
Perrin, Robert, Antarctic operations, 11829
Perry, Carlos J. G., psychiatric selection of candidates for space missions, 8203
Pershing, John J.:
memorial in District of Columbia, erection—
hearing, 11813
reports, 10316, 17213
trophy, NGB announcement of winners, 12389
Persian Gulf:
lights and fog signals, list, change, 2481, 9583, 13896, 17970
sailing directions, change, 16744
Persimmons, production, use, value, 1964–65, by States, 15379
Person, Philip H., jr., relationship between selected social and demographic characteristics of hospitalized mental patients and outcome of hospitalization, 2460
Personal affairs, Army handbook, 15512
Personal property:
brought into U.S. under Govt. orders, permanent exemption from duty—
law, 10087
reports, 8561, 10302
dollar savings possible through expanded use of foreign currencies to transport personal effects abroad, State Dept., and other Government agencies, GAO report, 14728
Federal surplus, acquisition for health, educational, and civil defense purposes, 9027
imported, civilian and military personnel, customs requirements, 16205
leasing, prohibit banks from engaging in, hearings, 17369
surplus—
classes sold by Defense Dept., 14515
how to buy from Defense Dept., 5852
Personality, personal characteristics and parole outcome, 14080
Personality tests, psychological tests and constitutional rights of Federal employees, hearings, 10356
Personnel, local agency, for family services in public welfare, job specifications, 11907
see also Social workers.
Personnel administration, *see* Administrative management.
Personnel management series, 3981
Personnel manual, *see* Civil service.
Personnel methods series, 304–306
Personnel Research Laboratory:
research reports, abstracts, 14183
technical reports, 90, 3790, 5323, 6805–8, 8198–8200, 14183–184, 15487–488, 16950
Personnel services in education:
cost of secondary school guidance services, 4297
NDEA institutes for advanced study, counseling and guidance, manual, 13276
see also Counselors.
Personnel workers, employment outlook, 9258
Perspective, instrument transmits vanishing point to illustration point, 13759
PERT, *see* Program evaluation and review technique.
Perturbation theory, fourth order, application of unitary transformation, 9543
Perturbations:
Krylov-Bogoliubov and Poincaré methods, high order effects, 4907
linear theory, guidance scheme for lunar descent, 2430
planetary, expansion of disturbing force, computation, 6412
planetary, in Chebyshev series, 4922
Peru:
background notes, 11242
Chile boundary, study, 9723
market and competitor for U.S. farm products, 13265
mineral industry, minerals yearbook chapter, 7701
selected areas, examination, 5398
special study mission, report, 12963
U.S. army area handbook, 1646
Peschon, John, information requirements for guidance and control systems, 10937
Pesticides:
behind pesticide label, consumer protection, etc., 15462
cleanup and confirmation of identity of pesticide residues by thin layer chromatography, 14113
documentation bulletin, index to literature on pest control (periodical), 3322
equipment for applying soil pesticides, 5284
in food products, methods of determining, USSR study, 7024
interagency coordination in environmental hazards—
hearings, 4223, 5813, 7214
report, 13156
manual, analytical, 11985–986
metabolism, 16314
Mississippi River Delta region, impact on environment, 15467
organic phosphorus, and insecticidal carbamic acid esters, USSR study, 971
protection against, use of respiratory devices, 5264
registered agricultural chemicals, summary of uses, supplement, 5276
residues—
analysis, guide, 7993
in foods, 10545
individual, methods, analytical manual, 11987
methods which detect more than one, analytical manual, 11985–986
safe and proper handling naval preventive medicine, manual, 17830

Pesticides—Continued
toxicological study of combined effects, USSR study, 920
use—
coordination of activities—
hearings, 4223, 5813, 7214
report, 13156
effects on fish and wildlife research findings, 4411
Pests:
control—
by chemical, biological, genetic and physical means, symposium, 12580
facts, 17735
related research, 8166
forest pest leaflet, 2057, 4438, 7451–54, 14694–696, 16322
intercepted plant pests, list, 6716
plant, of importance to North American agriculture, index, 11346
see also Insects.
Petavius, LAC 98, lunar chart, 14179
Peters, C. C., machining properties of 2 wood species grown in Hawaii, molucca albizzia and nepal alder, 10563
Peters, Elroy J., wild garlic, 3745
Peters, Frank A., cost estimate of Bayer process for producing alumina, 2356
Peters, Herman J.:
learning about space careers, 10972
seven steps to career in space science and technology, 10973
space jobs, 12275
Peters, I. G., postirradiation creatinuria in Macaca mulatta primates, 14190
Peters, Wendell R., time-base expansion as applied to vectorcardiography, 5333
Peterson, Donald A., ablative materials as nozzle sections of storable-propellant rocket engine, 9500
Peterson, Edward C., titanium resources of United States, 13677
Peterson, Esther:
addresses, etc.—
Nov. 13, 1965, 1559
Dec. 6, 1965, 2512
Dec. 7, 1965, 2516
Jan. 11, 1966, 5090
May 23, 1966, 11174
Sept. 27, 1966, 17799
Peterson, Eugene G., relief, 15813
Peterson, H. B., gas turbine powered MB–5 aircraft firefighting and rescue vehicle, 6539
Peterson, James P.:
bending tests of large-diameter ring-stiffened corrugated cylinders, 7856
test of truss-core sandwich cylinder loaded to failure in bending, 4916
Peterson, John B., jr.:
considerations regarding evaluation and reduction of supersonic skin friction, 16668
effect of air injection through slots and porous surfaces on flat-plate turbulent skin friction at Mach 3, 7846
Peterson, John J., fatigue behavior of Ti-8Al–1Mo–1V in simulated wing structure, etc., 1190
Peterson, Ronald F., soil, etc., Crow Creek Reservation, 9031
Peterson, Stephen M., contested election, hearing, 515
Peterson, Walter F., safflower culture in West-Central Plains, 30
Petitions for patent waiver, findings of fact and recommendations of NASA Inventions and Contributions Board, 7904
Petkof, Benjamin:
diatomite, 15003
gem stones, 15007
mica, 17889
Petrified Forest National Park, general information, 13886
Petrochemicals, future of U.S. petrochemical industry (address), 3999
Petrochemistry, 1965 Hungarian conference, reports presented, 10730
Petrography, *see* Rocks
Petroleum:
accumulations, gravimetric effects, preliminary summary, 7482
American petroleum interests behind Faisal-Johnson discussions, USSR study, 13459
changing water-injection profiles by selective plugging after water breakthrough at producing oil wells, field study, 4802
Connally hot oil act, redefine contraband oil—
hearing, 11664
law, 17134
reports, 11629, 17487
conservation, teamwork for growing America (remarks), 1388
crude oil—
characterizations, analyses, 17855
from Africa, analyses, 10910
from fields in west Texas, analyses, 6326
from important oilfields in United States, analyses, 17852
market demand forecast, monthly, 3323
qualitative and quantitative aspects, petroleum world, 6291
thienothiophenes presence in Wasson, Tex., 12251
crude petroleum and products—
minerals yearbook chapter, 1108
monthly statement, 3324
do petroleum-based protective coatings add fuel value to slash? 10572
domestic oil supply, prospects (remarks), 13433
exploration and exploitation, precise borehole gravimetry, 9017
flow characteristics of oil-producing sandstones, Illinois, Indiana, and Kentucky, laboratory evaluation, 12258
fundamentals, 2488
handling equipment and operations, Army technical manual, 11408, 16966
industries, water use, 6289
industry—
accelerated growth (address), 845
industry and Government (remarks), 6060
injury experience, 15004
oil policy concerns of U.S. Government (remarks), 849
review and reappraisal (remarks), 6062
technology, Lewis Research Center, Conference, report, 15085
International Convention for Prevention of Pollution of Sea by Oil, amendments, implementing—
law, 15730
reports, 12911, 14464
international petroleum quarterly, 3080
Iranian oil resources, Soviet criticism of foreign exploitation, 9090
Middle East, western oil interests, Soviet criticism, 12100
national and international outlook (address), 8411
Near East, western oil interests, USSR view, 14926
nitrogen gas in North Dakota oilfields, 17857
offshore leasing, problems and potentials (remarks), 10670
oil import program (remarks), 7511
oil recovery by low-pressure gas drive in Keener sand, Bonds Creek oilfield, Lafayette district, Pleasants County, W. Va., 12253
oil reservoir analysis and predicted recovery by waterflooding, Clinton sand, Logan oilfield, Hocking County, Ohio, 1157
oilfields, Williston basin, Mont., N. Dak., and S. Dak., 13672

Petroleum—Continued
petroleum and national defense (remarks), 6556
plants, investment and operating costs, bibliography, 12235
production and processing occupations, employment outlook, 9307
products—
census of manufactures, 1963, manufacturing plants, location, 12700
commodity transportation survey, shipper series, 214
distribution by administration districts, 2860, 7540
survey (series), 4786–87, 7704, 12236, 16569
resources of oil in U.S. and world, 2101
Soviet critique of Anglo-American oil interests in Iran, 17771
statistical information system vital for further development of industry (remarks), 14769
sulphur compounds in, identification, 12257
thermal recovery—
carbon deposition, statistical approach to research, 7715
project and 2 waterflood projects, Carter, Garvin, and Stephens Counties, Okla., 16560
waterflood performance calculations, computer techniques for calculating shape factors and channel volumes from potentiometric model, 12239
well-drilling trends (remarks), 6061
see also Pipe lines.
Petroleum as fuel, *see* Fuel oils.
Petroleum engineering, radioactive contamination resulting from use of nuclear explosives for stimulating production, 1158
Petroleum Exposition, International, *see* International Petroleum Exposition.
Petroleum gel as slash ignition aid and fuel booster, 10584
Petroleum products, *see* Petroleum.
Petroleum refineries:
and related industries, census of manufactures, 1963, industry report, 6903
industry wage survey, 17813
United States and Puerto Rico, 12237
Petrology, *see* Rocks.
Petrowitz, Harold C., operation and effectiveness of Government boards of contract appeals, 13069
Petribone, Marian H., revision of Pilargidae, etc., 7939
Petty, C. M., study of perturbed periodic systems of differential equations, stroboscopic method, 15074
Petty, Thomas L., management of chronic obstructive lung diseases, conclusions of 8th Aspen Emphysema Conference, 11192
Pezdirtz, George F., new class of stepladder and ladder polymers, polyimidazopyrrolones, 2431
PF series, 3327
Pfeffer, Robert, analysis and correlation of heat-transfer coefficient and friction factor data for dilute gas-solid suspensions, 15192
PFM (pulse frequency modulation) telemetry, *see* Telemetry.
PHA, *see* Public Housing Administration.
Pharmaceuticals, *see* Drugs.
Pharmaceutics (USSR periodical): translations, 12102, 12112
Pharmacies:
pharmacy section of packaged disaster hospital, 18007
physician ownership, report of subcommittee, 10355
Pharmacists:
druggists turning to local public employment service offices for complete manpower service, 1988
Pharmacists—Continued
employment outlook, 9259
National Conference of Scientific Societies of Pharmacists, Bulgaria, 10718
orientation manual on disaster preparedness, 5107
residencies in Public Health Service hospitals, 16807
℞ legend, FDA manual, 7447
speak to customers about medicare, 5144
Pharmacognosy, Ukranian-language book, excerpts, 7593
Pharmacologists, invitation to build career with FDA, 8947
Pharmacology:
and clinical application of central cholinolytics, USSR study, 7612
clinical, excerpts from Russian language book, 10773
propellant fuels, boron hydrides, 14188
side effects of tranquilizers and antidepressants, 5325
see also Drugs.
Pharmacy, USSR, news, 2270
Phase analysis of cardiac activity, USSR, 14953
Phase inversion, invertor provides variable reference push-pull output, 13779
Phase rule and equilibrium, ternary phase diagrams for Ga-P-Zn and Ga-As-Zn systems with applications to diffusion problems, 9412
Phase shift:
phase shifts of human circadian system and performance deficit during periods of transition—
East-West flight, 8308
North-South flight, 9936
West-East flight, 11446
phase variations of 16 kc/s signals from GBR observed at College, Alaska, 1297
Phase studies, nucleation and growth of ice crystals, 4552
Phase telegraphy, transmission of discrete information in phase-keyed channels, USSR study, 17762
Phelan, Earl W., radioisotopes in medicine, 15550
Phelps, Robert B., wood products used in single-family houses inspected by FHA, 6779
Phenolic nylon, *see* Nylon.
Phenolic resins, *see* Resins.
Phenology:
Acacia koa on Mauna Loa, Hawaii, 10577
of trees on sites with high water tables, 2073
Phenylketonuria:
inherited metabolic disorder associated with mental retardation, 6941
what do you know about PKU, 281
Phifer, Bryan, Federal-State programs for occupational education & training, 6768
Philadelphia, Pa.:
area wage survey, 9316
commodity transportation survey, production area series, 8343
principal electric facilities, map, 7374
Philately and philatelists, *see* Postage stamps.
Philipp, Warren H., chemical reactions of carbides, nitrides, and diborides of titanium and zirconium and chemical bonding in these compounds, 13836
Philippines:
atomic energy safeguards, application by IAEA for peaceful uses, agreement, 2585
background notes, 18113
Corregidor-Bataan Memorial, agreement, 11263
establishing business, 4013
health information for travel, 6579, 16795
income-tax convention, 13071
loan of destroyers, law, 426
military bases, relinquishment of certain areas for other lands, agreement, 8071

Philippines—Continued
mineral industry, minerals yearbook chapter, 4773
national service life insurance funds, peso payments—
hearings, 14443
report, 15901
official publications, exchange, agreement, 9728
parcel post, agreement, 5164
sailing directions, 9580
trade in cotton textiles, agreement, 5160
travel authorization for House Veterans' Affairs Committee, report, 8601
veterans, hospitalization and medical care program, extend—
hearings, 16195, 17397
law, 17111
reports, 15866, 15877, 16133
war orphans educational assistance—
hearings, 16195, 17397
law, 17112
reports, 15867, 16134
Philippot, Jack L., relief, 8540, 12818, 13106
Phillips, Charles W., job development and training workers in health services, 14759
Phillips, Harry L., modern mathematics and your child, 4311
Phillips, V. Estelle, Air University Library index to military periodicals, 2664
Philosophy:
and cybernetics, problems, USSR studies, 938
biology and game theory, USSR studies, 9112
biology, contemporary problems, 6200
cybernetics, USSR study, 9094
dialectics, philosophical science, USSR study, 9093
executive, bibliographic survey, 12656
history, newly published, USSR critique, 9146
medicine and biology problems, USSR studies, 9108
scientific and technological aspects, USSR study, 2255
simulation in man-machine space mission system, 10977
statistics, philosophic questions, USSR study, 6238
Philpot, Charles W., temperatures in large natural-fuel fire, 10578
Philogopite mica, *see* Mica.
Phoenix, Ariz.:
area wage survey, 13598
principal electric facilities, map, 7378
Phonocardiographs:
microphone is rugged and moistureproof, 13750
system monitors heart sounds, 9466
Phonographs:
and record player attachments, current industrial reports, 1732, 15586
Federal item identification guides for supply cataloging, supplements, 2939
Phonorecords:
children's recordings, selected list, 16223
Library of Congress catalog, 12229, 16545
Phormium, western Oregon, anatomical and agronomic studies, 14150
Phosphate, Fort Meade quadrangle, economic geology, 12011
Phosphate rock, *see* Rock phosphates.
Phosphate slimes, chemical processing of Florida, phosphate rock slime, 17853
Phosphates:
electrolytes, electrowinning tungsten, 7711
fertilizer situation, 8141
industry, western, and its resources, evaluation, Idaho, 13691
Meade Peak, Idaho, samples, petrographic and flotation studies, 9374
recovery, effects of certain mineralogical features, 9372
Phosphates—Continued
superphosphates, current industrial reports, 2817
see also Rock phosphates.
Phosphine:
anticholinesterase properties of O-ethyl-S-alkylmethylthiophosphinates, USSR study, 892
gas masks for respiratory protection, 13678
Phospholipid metabolism and minute heart volume, 6125
Phosphonium compounds, mercurated salts, USSR study, 16415
Phosphoric acid, derivatives, insecticidal, protective clothing permeability, East German study, 1037
Phosphorous acid, esters, action on α-chloroperfluoronitrosoalkanes, USSR study, 1011
Phosphorus:
intoxication by organic phosphorus compounds, 10770
organic compounds—
inhibited reactivation of cholinesterose, role of metallic complexes in reactivation, USSR study, 14943
nitrochromazo for titrimetric microdetermination of sulfur, USSR study, 13539
organic pesticides, and insecticidal carbamic acid esters, USSR study, 971
promotes root development of yellow birch, 8958
Photo interpretation, *see* Photographic interpretation (military science).
Photochemistry:
photolysis, poly(n-butyl methacrylate) in vacuum, 6550
photolysis, polystyrene films in vacuum and in air, 2496
solvent effects in photolysis of polystyrene, 5074
Photoconductivity:
beam alignment techniques based on current multiplication effect in photoconductors, 9405
review of U.S. Government research and development reports, 6476
Photocurrent carriers, beam alignment techniques based on current multiplication effect in photoconductors, 9405
Photodegradation of high polymers, 2496, 5074, 6550
Photoelasticity, photoelastic study of internally stressed circular opening in biaxial stress field, 16571
Photoelectric cells, photoelectric system continuously monitors liquid level, 4876
Photoelectricity:
detection of weak spectrum lines, 6345
scanner makes work function maps of metal surface, 17904
Photoengraving, superior process for semiconductor devices, 16607
Photogrammetry:
celestial bodies, photography, photogrammetric processing, etc., in space investigations, USSR study, 988
stereopanoramic photography, USSR study, 12142
Photographers:
employment outlook, 9260
examination announcement, suspension notice, 3985
Photographic apparatus and supplies:
census of manufactures, industry report, 3904
commodity transportation survey, shipper series, 5453
consolidated identification list for test evaluation, Federal supply catalog, Defense Dept. section, 4255–56, 8811
Federal item identification guides for supply cataloging, supplements, 2937
Federal Republic of Germany, production, imports, etc., 341

Photographic apparatus and supplies—Con.
photographic equipment, utilization and procurement review of controls at Sandia Laboratory, Albuquerque, N. Mex., AEC, GAO report, 4503
photographic recording of high-speed processes, 1284
Photographic interpretation (military science):
photo interpretation of celestial bodies in space investigations, 988
team procedures in image interpretation, 14234
Photographic paper, domestic, for printing documents and texts, USSR study, 14948
Photographic recording of high-speed processes, 1284
Photographic surveying, photography in airborne geophysical surveying, USSR study, 13449
see also Photogrammetry.
Photographing recording systems, *see* Photographic apparatus and supplies.
Photographs:
CD newspictures, 2734
identification of individuals through photographs, USSR study, 16505
moon, Ranger IX camera fields of view, 12281
Photography:
atom, role in nuclear research and development, 162
beam splitter used in dual filming technique, 6398
celestial bodies, photo interpretation, etc., in space investigations, USSR study, 988
continuous, close-in, use of high-intensity flasher, 7776
low-density iron artificial meteoroid, photographic observations, 11055
photographically produce small dot patterns of known geometry on surface to be subjected to adhesive bonding tests, 15098
pictorial fundamentals, techniques, equipments, and systems, Army technical manual, 6846
recording esthetic and biologic changes with photographs, 2071
stereopanoramic, problems, USSR study, 12142
surface surveillance, manual, 7976
see also Aerial photography—Infrared photography.
Photoionization, *see* Ionization.
Photolysis, *see* Photochemistry.
Photometers, scanning system automatically determines atmospheric layer height, 9477
Photometry:
brightness of earth as planet, USSR study, 16408
flame—
determination of cesium and rubidium, 15023
report, 5012
see also Spectrophotometry.
Photomicroscopes, duty-free entry, 389, 542
Photomultiplier, plastic scintillator converts to ultraviolet range, 6410
Photons, absolute yields of light elements by deuteron bombardment, 16699
Photonuclear reactions, photonuclear data index, 7915
Photo-scale protractors, *see* Protractors.
Photosensors used to maintain welding electrode-to-joint alignment, 4890
Photosynthesis, halophiles from Owens Lake, 4818
Phototypesetting machines:
electronic composing system, guide for utilization, 6045
offset lenses add versatility, 9480
Photoviscoelasticity, 9418
Photovoltages, high photovoltages in cadmium sulfide films, 9534
Photovoltaic barriers, *see* Barrier materials.
Photovoltaic solar sensor for use in spacecraft orientation control systems, 6447
PHS, *see* Public Health Service.
Physical constants, recommended by NAS–NRC, adopted by NBS, 5006
Physical culture, *see* Physical education and training.
Physical education and training:
Job Corps manuals, 618, 10404
Peace Corps, general information, 5082
Soviet athletics, analytical approach to physical training urged, 913
Soviet woman and physical culture, 987
Physical examinations:
health, survey of children 6–11 years, psychological measures used, 8004
medical, utilizing data in elaboration of standards for therapeutic, etc., service, USSR study, 7550
Voskhod spaceship crews, results, 12149
see also Premarital examinations.
Physical fitness:
airmen, medical standards and certification, Federal aviation regulations, 2006, 8880, 14605, 17647
4 years of fitness, President's Council on Physical Fitness, report, 2514
Physical Fitness, President's Council on, *see* President's Council on Physical Fitness.
Physical geography:
Alaska, divisions, 10642
Chinese Geographic Society, 1963, annual convention, geomorphology, papers, 13585
cold regions, aspects, 8249
physiographic and hydraulic studies of rivers (series), 6031, 12021, 17718
Physical measurements, and financial calculations, farmers' handbook, 16919
Physical properties testing equipment, industrial plant equipment handbook, 8799
Physical research:
Atomic Energy Commission authorizing legislation, 1967, hearings, 8482
physical studies with high energy protons, 2439
Physical sciences, *see* Science.
Physical therapists, employment outlook, 9253
Physical therapy, all-Union congress of physiotherapeutists and health-resort scientists in Baku, 16459
Physical training, *see* Physical education and training.
Physically handicapped, *see* Handicapped.
Physicians:
aging patient, disease detection in persons over 45, office evaluation, 16806
Armed Forces appointment and residency consideration program, information bulletin, 8812
aviation medical examiners, directory, 9939
doctor bill insurance, medicare health benefits can help you, if you are about 65, 16831
employment outlook, 9264
flight accidents, 15559
general practice residency program, Indian Health Division, 7991
health insurance under social security, reference guide, 11228
heart disease, how doctors diagnose, 1421
Indian Health Division pediatrics residency program, 2524
liability in good Samaritan cases, relieve, law, 441
medical internships in U.S. Public Health Service hospitals, 18060
medicare and practicing physician (paper), 11194
opportunities in Medicine and Surgery Department, VA, 16894
ownership in pharmacies and drug companies, report of subcommittee, 10355

Physicians—Continued
practicing, in medical higher educational institutes, scientific activity, USSR study, 14793
preventive medicine residency program, Division of Indian Health, 6574
Public Health Service, residencies, general information, 9629
reporting physical abuse of children in D.C., reports, 17200, 17288
review of medicare, 6607
training in RSFSR, 7551, 7615
young physician does his work, USSR study, 2264
see also Medical specialists—Ophthalmologists—Osteopathic physicians.
Physicists:
employment outlook, 9263
examination announcement, 14302
radioisotopes, examination announcement, 8404
discontinuance notice, 3978
trainee, examination announcement, 298
Physics:
approach to sediment transport problem, 12021
atmosphere and ocean, USSR studies, 13466
atmospheric, USSR studies, 2158
combustion and explosion, USSR studies, 10716, 13500, 14958
Communist Chinese abstracts, 2775
East European abstracts, 2872
free atmosphere, USSR studies, 10678
heat exchange during vapor condensation, 4989
journal of research, National Bureau of Standards, 3100, 17937
mathematical, journal of research, National Bureau of Standards, 3101, 17938
moon, characteristics, explorations, etc., papers, 1243
radiation, 142
reliability physics notebook, 8201
Rumania, application in production, 12107
solar physics, achievements, 13724
solid state, summaries of basic AEC research programs, 5403
USSR abstracts, 3677
see also Nuclear physics—Plasma.
Physiographic and hydraulic studies of rivers (series), 2103
Physiography, *see* Physical geography.
Physiological effects of 18-hour flight in F–4C aircraft, 12642
Physiological reactions, dogs, characteristics and origin of delayed reactions, USSR study, 16496
Physiology:
bedrest effect, 9390
cardiovascular system and respiration, USSR scientific research, 6119
chronic acceleration studies, responses, 9415
chronic adaptation to high elevations, USSR study, 4633
conditioning of human organism, USSR study, 10810
cosmonaut experience, USSR studies based on, 9137, 14821
data, feeding into Ural-2 electronic computer, USSR study, 12165
electrophysiological investigations of retina, USSR study, 14887
environmental, of submarine and spacecraft, 6282
humans and animals, reactions to space flight, 13515
Hungarian universities, developments, past 20 years, 10779
learning and overlearning correlates, 15251
monitoring, use of dry electrodes, 11052
race car drivers, observations, 15068
radioisotopes, studies employing, 5401
Physiology—Continued
reactions of man during weightlessness, USSR study, 1043
USSR studies, 963, 7637, 9109, 12134
USSR technical progress, 2155
Physiotherapy, *see* Physical therapy.
Phytoecology of greenstone habitat at Eagle, Alaska, 13396
Phytophthora cinnamomi, infection of shortleaf pine seedlings, testing for resistance, 5986
Phytoplankton, populations, distribution in Sandy Hook Bay, etc., 7444
Piao Lin, *see* Lin Piao.
Piazza, Frank, interplanetary monitoring platform (IMP) spacecraft performance, 7860
Picasso, Pablo, life and works, USSR study, 6173
Pickering, Glenn A.:
drop structure for Walnut Creek project, Walnut Creek, Calif., 13296
spillway, Cannelton Locks and Dam, Ohio River, Ky. and Ind., 5889
spillway, Hannibal Locks and Dam, Ohio River, Ohio and W. Va., 13297
Pickering, John E., space radiobiology, training and operations, a concept, 5299
Picketing:
District of Columbia, prohibit within 500 ft. of any church, report, 12984
situs picketing, report, 8543
Pickles and relishes:
making at home, 6747
standards for grades, 14512
Pickoffs, optical gyro pickoff operates at cryogenic temperatures, 7784
Pico de Itabirito district, Brazil, geology and mineral resources, 4518
Pictorial fundamentals, 6846
Picture story series, 3766, 6776, 9833, 15461–476
Pictured Rocks National Lakeshore:
establish—
hearings, 4135, 13042
report, 15887
Pictures, *see* Paintings—Photographs.
Piedmont region, Virginia, loblolly, and shortleaf pine, site index prediction, 8977
Pieper, C. W., ground flight tests, XV–9A hot cycle research aircraft, 8272
Pierce, Clyde L., response of guard electrodes in oil-well logging, 10921
Pierce, James L., commerical bank liquidity, 16278
Pierce, Margaret H., cases decided in Court of Claims, 599, 600, 1958–59, 4239–40, 5840, 7249
Piers, data, Port of New York, N.Y. and N.J., 13293
Piersma, B. J., interaction of carbon dioxide with hydrogen chemisorbed on platinum electrode, 16764
Piersol, Allan G., spectral analysis of nonstationary spacecraft vibration data, 1191
Pietri, C. E., spectrophotometric determination of gallium in plutonium-gallium alloy, 3847
Piezoelectricity, piezoelectric pulsing equipment for sonic velocity measurements in rock samples from laboratory size to mine pillars, 13694
Pig iron, *see* Cast iron.
Pigeons, wild, and white-winged doves, hunting, possession, transportation, importation in Alaska, Federal regulations, governing, 14673
see also Mourning doves.
Pigford, J. L., and wife, relief, 16029
Piggyback program, cooperative exporting, 10031
Pigs, *see* Swine.
Pihlainen, John A., construction in muskeg, 3819
Pike, Clarence E., Far East and Oceania agricultural situation, 14546

Pil Su Park, *see* Barker, Richard P.
Pilargidae, *see* Annelids.
Pile driving, *see* Piles and pile driving.
Pileggi, Joseph, commercial fisheries review, 2763
Piles and pile driving:
  explosive driven pile, optimization list, 11397
  mechanics of penetration of piles into permafrost, 8245
Pilié, Roland J., project fog drops, investigation of warm fog properties and fog modification concepts, 4823
Pillars (mine), *see* Mine pillars.
Pillowcases, current industrial reports, 263
Pilot balloons, *see* Ballons.
Pilot guides, *see* Coast pilots.
Pilot plants, flotation of nonmagnetic taconite, etc., 6313
Pilots and pilotage:
  Great Lakes—
    seaway pilot dispatch system, district 1, operations manual, 4001
    statistical report, 4028
  see also Astronauts—Aviators.
Pinckney, S. Z., optimized turning-vane design for intake elbow of axial-flow compressor, 1259
Pine:
  eastern white pine, bibliography, 10598
  geographic distribution in world, 5293
  Honduras—
    bagged and barerooted, survival and growth, 16326
    early height growth, effect of plastic mulch, 16327
    potting media, 16328
  Jeffrey and ponderosa, dwarfmistletoe removal and reinvasion, 2067
  loblolly pine plantations, forest floor related to stand characteristics, erosion study, 4459
  lodgepole—
    antibiotics for control of comandra rust, 15436
    bleached groundwood, kraft, and sulfite viscose-grade pulp, suitability for pulping, 2075
    reproduction after slash disposal treatments, 13364
  longleaf, litter in stands thinned to prescribed densities, 16334
  needle fuel bed, characteristics of backfires and headfires, 5980
  ponderosa—
    bitterbrush, natural and thinned, nutrition levels under, 8963
    dwarfmistletoe control, forecasting returns, 17704
    samplings, spacing and understory vegetation affect growth, 2063
    seed sources, performance in Denbigh Experimental Forest, N. Dak., 5982
    slash cleanup in forest, affects use by deer and cattle, 13366
    southern Idaho, pine butterfly defoliation, 16325
    use of forest in Arizona by deer, elk, cattle, 13365
  red—
    and jack pine, estimating crown fuel weights, 7461
    investment returns from growing, estimating, 10597
  sand pine cone and seed characteristics, 5997
  Scleroderris canker in upper Michigan, etc., 13370
  seedling survival under simulated drought, 16333
  shortleaf—
    regeneration on prepared sites 5 years after seedfall, 5989
    seeding in Ozarks, 10592
    seedlings, resistance to infection by Phytophthora cinnamomi, testing, 5986
Pine—Continued
  shortleaf—continued
    stand density affects yield, 793
    thinning methods, 795
    understory hardwoods retard growths, 794
  site index prediction for Virginia, loblolly, and shortleaf, in Virginia Piedmont, 8977
  slash—
    plantations, old-field, topwood volume tables, 5987
    pole-sized, response to drainage, 16331
    racial variation, affected by climatic factors, 16339
  southern—
    cone and seed yields from controlled breeding, 10610
    needle cast, forest pest leaflet, 7451
    plywood, standard of trade, 12382
    yellow, log overruns, 14708
  species in Harrison Experimental Forest Arboretum, 5996
  Virginia, pre-commercial thinning not recommended, 4443
  white—
    crystallization of resins induced by cone beetle, 4442
    eastern, mensurational characteristics, 4468
    germination of seed as influenced by stratification, 798
    resins, insect-induced crystallization, 4441
    weevil control, field test of procedures for evaluating and scheduling, 792
    western, site index and tree height of associated species, 8972
Pine butterflies, *see* Butterflies.
Pine needle-sheath miner, malathion aerial spray controls, 17689
Pine root collar, *see* Weevils.
Pine sawflies, *see* Flies.
Pine shoot moths, *see* European pine shoot moths.
Pinehurst, N.C., climatic summaries of resort areas, 5899
Pinellas County, Fla.:
  land conveyance to—
    hearings, 13061
    report, 17205
Piñon:
  diurnal and seasonal fluctuations in moisture content, 13369
  eradication, effect on streamflow from Corduroy Creek basin, Ariz., 10643
  pinyon-juniper sites in New Mexico, adaptability of forage species, 4452
  woodlands on Cibecue Ridge, throughfall for summer thunderstorms, 6033
Pins:
  alignment tool facilitates placement on irregular horizontal surfaces, 16633
  straight, office, Federal standard, 11955
Pinus edulis, *see* Piñon.
Pinyon, *see* Piñon.
Pioneer (USC&GSS):
  International Indian Ocean Expedition—
    cruise narrative and scientific results, 11503
    oceanographic stations, BT observations, and bottom samples, data report, 15636
Piotrowski, Maria A., relief, 12893, 14351
Pipe and pipe fittings:
  acrylonitrile-butadiene-styrene plastic, standard of trade, 1290
  cast iron soil pipe and fittings, standard of trade, 13856
  circular pipe bends, liquid cavitation studies, 4925
  corrugated, structural plate, resistance coefficients, hydraulic model investigation, 8864
  external linkage tie permits reduction in thickness of flange, 13761

Pipe and pipe fittings—Continued
Federal item identification guides for supply cataloging, supplements, 2935
helical corrugated pipe, friction factors, 8127
hydraulic analysis of circular pipe culverts, electronic computer program, 5123
pipe bends, effects on fluid flow cavitation, 11021
piping flexibility, primary analysis for liquid-metal-cooled fast breeder reactors, 5388
portable tools—
cleans pipes, 2394
removes burrs from pipe and tubing, 1235
production in USSR, 13501
remotely controlled system couples and decouples large diameter pipes, 12317
sewer pipe in sewerage utilities, regional requirements, 5435
Pipe cutters, tool useful in limited space, 9454
Pipe lines:
accounts, uniform system, 9060
cryogenic transfer, inexpensive thermal insulation, 13783
gas, flow rate, computer program to determine, 12331
interstate natural gas, FPC report on safety, 8770
modify definition of term carrier for purpose of ICC regulations, report, 1839
natural gas—
sales by producers to interstate pipeline companies, 4381
statistics for interstate companies, 4380
oil—
transport statistics, 4585
transportation revenue and traffic, 3621
penalties for thefts from pipelines, report, 17246
transport vehicles for pipeline construction, USSR study, 12109
vacuum jacketed, leak locator eliminates need for removal of outer jacket, 16635
Pipe Spring National Monument, general information, 12400
Pipefitters, employment outlook, 9261
Pipelen, Arnold P., hydraulic transport of coal, 7712
Pipelines, *see* Pipe lines.
Piper, A. M., has United States enough water? 4527
Piper Aircraft Corporation, President's E award for excellence in exporting (remarks), 355
Pipiringos, George N., origin of elements associated with uranium in Cave Hills area, Harding County, S. Dak., 17719
Piscataqua River, water resource appraisals for hydroelectric licensing of basin, planning status report, 4387
Pistol practice, *see* Target practice.
Pistols, NGB indoor matches, postal, announcement of winners, pamphlet, 17951
Piston gages, rotating deadweight, calibration by means of mercury column, 15025
Pistons, rectangular, use of Fresnel method to calculate radiated acoustic field, 1373
Pitch (aircraft):
pitch-up on supersonic transport model with high-aspect-ratio variable-sweep wing, 15160
Pitch (motion):
Aerobee 150 structural and aerodynamic pitch coupling, 17910
approximate determintaion of pitch of screw propeller, USSR study, 2213
deep-stall pitch-up characteristics of T-tail transport aircraft, parametric study, 13803
Pitch (motion)—Continued
Gemini configurations, damping and stability in pitch and yaw, 7854
subsonic jet-transport airplane, model, aerodynamic damping and oscillatory stability in pitch, 4918
Pitch (music), *see* Musical pitch.
Pitcher, C. B., market for residential central heating equipment in United Kingdom, 10025
Pitman, Norman J., relief, 16032
Pitot tubes, surface pitots for measuring tubulent skin friction at supersonic Mach numbers, adiabatic wall, 12355
Pittman, Charles W., jr., relief, 12807, 16011
Pittman, Claud M., analytical determination of effect of thermal property variations on performance of charring ablator, 12359
Pitts, Donald G.:
electrical stimulation of oculomotor nucleus, effects of stimulus frequency, 15492
scotic response in cat, 12645
Pittsburgh, Pa.:
area wage survey, 10866
commodity transportation survey, production area series, 8345
fluid milk supplies, coordinating in market, 6760
principal electric facilities, map, 7374
Pittsburgh coal, *see* Coal.
Pituitary glands, hypophysis, in presence of radiation injuries to organism, USSR studies, 4691
Pividal, Rafael J. Nobo y, *see* Nobo y Pividal, Rafael J.
PKU, *see* Phenylketonuria.
PL 480 newsletter, 3148
Place names, *see* Geographical names.
Placebo, *see* Microgrammars.
Placement:
college placement officers, employment outlook, 9225
Job Corps centers, manual, 13259
Plague, immunization of guinea pigs against, USSR studies, 10834
Plane coordinates, *see* Coordinates.
Plane stress, *see* Strains and stresses.
Plane thermoelastic deformation of internally heated annular disks or hollow cylinders, 4985
Planetarium, elementary-school teaching resource, 17887
Planetary perturbations in Chebyshev series, 4922
Planetology, significant achievements, 10976
Planets:
atmospheres—
continuing bibliography, 15091
significant achievements, 7756
gases, helium-driven, tailored-interface operation of shock tubes, analysis, 12363
interplanetary missions—
chemical stages in 300 to 400 second specific impulse range, performance analysis, 2434
finite-thrust escape from and capture into circular and elliptic orbits, 15194
midcourse guidance using radar tracking and on-board observation data, 16686
theory of minimum effort control, 6330
navigator study of electric propulsion for unmanned scientific missions, 15066
observation made with 6-inch transit circle 1949–56, corrections to FK4, GC and N30, 6518
optimization of double-conic interplanetary trajectories, 4932
parking orbits with examples for Mars, 4959
perturbations, general, expansion of disturbing force, computation, 6412

Planets—Continued
perturbations in Chebyshev series, 4922
planetary-entry configurations, dynamic-model study in Langley spin tunnel, 13818
planetary flight handbook, 9445
see also Planetology.
Planing mills:
census of manufactures, 1963, industry report, 6897
southern, industry wage survey, 17811
Plankton:
freshwater, analytical reference service training program study, 2528
general information, 14653
Planners, *see* Supervisors.
Planning:
Bulgaria, new system of planning and economic management, contracts and taxes, 16454
chemico-pharmaceutical industry, USSR study, 4643
cybernetics in machine building industry, analysis aids, 12180
functional facilities for home economics education, 5880
land use with respect to aircraft noise, Air Force manual, 9850
rural and urban, uses of airphotos, 11348
welfare services for older people, papers, 11904
Planning (economics), *see* Economic policy—Families.
Planning (programming), *see* Programming (planning).
Planning reports, National capital open space program, 17946
Planning status report (series), 4384–87
Plans, *see* Architecture.
Plans for progress program, 12198
Plant diseases, *see* Diseases of plants.
Plant lice, aphids on leafy vegetables, how to control, 6742
Plant pests, *see* Pests.
Planters (seed):
precision vacuum-type planter head, 3728
Planting:
precision vacuum-type planter head, 3728
spring, booklets, list, 6566
see also Tree planting.
Plantings, *see* Crops.
Plants:
agricultural, scientific cultivation, Rumanian study, 14917
ecology, Death Valley, Calif., 7487
flora of Starkey Experimental Forest and Range, 10554
hardiness zone map, 52
inventory, material received by New Crops Research Branch, 8137, 11339–340, 14115
ion transport in relation to salinity, 7513
Library of Congress, classification, plant industry, 1100
light effects, experiments, etc., 8150
nutrients, consumption in U.S., 16870
optical properties, influence of environmental factors, etc., on lower and higher plants, studies, 12375
ornamental plant materials in nurseries, application of granular herbicides, 14103
phytoecology of greenstone habitat, Eagle, Alaska, 13396
primary plant nutrients, consumption, 14161
protection and quarantine, USSR conference, 13566
publications, price list, 1404
quarantine import requirements—England, Scotland, and Wales, 14116
Mexico, 11341
quarantine notices under Plant quarantine act, P.P.C. series, 3305
quarantine, prevent hitchhiking bugs, 9832
quarantines, protection for America's resources, 6776
Plants—Continued
respirometer enables high resolution of oxygen consumption rates, 16629
transpiration, research, 11366
see also Diseases of plants—Forbs.
Plants (industrial):
alfalfa dehydrating plants, feasibility of establishing in Northwest resource conservation, etc., 14542
atmospheric problems, 6283
characteristics of 63 modern industrial plants, 16216
chemical and petroleum, investment and operating costs, bibliography, 12235
defense industrial plant equipment center operations, DSA manual, 4248
defense industry diversification, analysis with case studies, 6825
equipment handbooks—
aircraft maintenance and repair shop specialized equipment, 13246
centrifugals, separators and filters, 13247
combination and miscellaneous instruments including dynamometers, 16208
compressors and vacuum pumps, 10386
crystal and glass industries machinery, 10388
distribution and power station transformers, 8800
electrical control equipment, 16209
environmental chambers, 8801
foundry equipment, 11842
industrial furnaces and ovens, 8798
material handling equipment and lifting electro-magnets, 7255
measuring and controlling instruments, 10387
metalworking machinery, 8797
motors, generators and generator sets, and rotating converters, 11844
physical properties testing equipment, 8799
portable machine tools and toolroom layout plates and tables, 8804
power conversion equipment, electrical, 8802
pumps, 11843
refrigeration and air conditioning equipment, 17606
rolling mills, drawing machines, and metal finishing equipment, 8803
scales, balances, and optical instruments, 11841
storage tanks, 17607
textile industries machinery and industrial sewing machines, 7257
woodworking machines, 606
wrapping and packaging machinery, 7256
1st steps to company survival, industrial civil defense workbook, 290, 17025
location planning, a look at the labor side, Labor Statistics Bureau publications and studies, list, 14982
manufacturing, location by industry, county, and employment size—
apparel and related products, 12698
chemicals and allied products, 12700
East North Central division, 14256
East South Central division, 14259
furniture and fixtures, 12699
instruments and related products, 15574
leather and leather products, 12698
lumber and wood products, 12699
machinery, except electrical, electrical machinery, 12701
Middle Atlantic division, 14255
miscellaneous manufactures, 11455
New England division, 14254
ordnance and accessories, 11455
Pacific division, 16997
paper and allied products, 11454
petroleum and coal products, 12700
primary metal industries and fabricated metal products, 11456

239-221—67—No. 863——81

Plants (industrial)—Continued
manufacturing—continued
printing and publishing, 11454
Rocky Mountain States, 14260
rubber and plastics products, 12700
South Atlantic division, 14258
stone, clay and glass products, 11455
textile mill products, 12698
transportation equipment, 15574
West North Central division, 14257
West South Central division, 16996
Pacific Northwest major industrial plant sites, Puget Sound area, Wash., 5430
Pavlodar oblast, tractor production, 9152
poultry and egg, operating under inspection and grading programs, list, 592
profit as index of efficiency, USSR study, 1034
safeguarding classified information, security manual, 13254
shellfish, depuration plant design, 13962
shipments of defense oriented industries, 1963 census of manufactures, 6915
under USDA inspection, processed fruits, vegetables, etc., list, 16202
tours for international visitors to U.S., 6684
see also types of industrial plants.
Plants, fossil, paleobotany of Cook Inlet region, Alaska, 12020
Plasma:
acceleration problems, electrode phenomena in high energy density discharges as applied to, 12266
accelerators, space propulsion, 7853
Apollo sheath, estimates of nonequilibrium ionization phenomenon, 15077
argon and argon-hydrogen, reaction of coal, 15030
collision-free magnetoplasma, radiofrequency power transfer to ion-cyclotron waves, 7876
cyclotron waves in collisionless plasma, 2366
effects in near-zone field of antenna, 16616
electron drift in plasma, 4991
high density, radiationless decay, limits of validity, 11049
hydrogen, low-density nonequilibrium, steady-state composition, 17912
magnetized, ballooning interchange instabilities under gravitational fields, 8286
natural modes, error in induced electric field modes under Stix coil resulting from assumption of orthogonality, 6438
plasma and electronic super-high frequency amplifiers and oscillators, USSR study, 13511
properties to 100 kilobars of pressure, measurement and interpretation, 9420
radiation from slot antenna in ground plane covered by warm plasma layer, 12366
sliding plasmas, volume and surface instability, 2405
sprayed alumina coatings on stainless steel, shear bond strength analysis, 1275
substitutes, experiments with polyglucine and gelatinol, USSR studies, 949
superconducting magnetic bottle for plasma physics experiments, 15186
tenuous helium, effects of metastable atoms on volume ion production, 1280, 12334
Plasma (blood), *see* Blood.
Plasma jets, synthesis of nitrogen fluorides in nitrogen plasma jet, 12426
PLASTEC notes, 8815–16, 10396, 13255, 17614
PLASTEC report, 4259, 7268, 8817, 14521–522
Plaster, census of manufactures, 1963, industry report, 3898
Plasterers, employment outlook, 9219
Plastic coating, anticorrosive, USSR study, 10701
Plastic scintillator converts standard photomultiplier to ultraviolet range, 6410
Plastic sheets, *see* Sheet-plastics.
Plastic strain, *see* Strains and stresses.
Plasticity, soils, plane deformation, 14210
Plastics:
and related materials, trade designations, 8815
bonded plastic tape use for lining filament-wound fiber-glass cryogenic propellant tanks, 4950
bottles, current industrial reports, 260, 1735, 12720
commodity transportation survey, shipper series, 3909
compatibility with liquid propellants, fuels and oxidizers, 8817
defense engineering materials and applications, Government specifications and standards, 17614
electrical properties, data compiled from technical conference search, 4259
fiber reinforced thermoplastics, applications, etc., 14521
filament winding effects of curing-agent structure upon epoxide plastic physical properties, 2499
glass reinforced, weathering, 7268
in traumatology and orthopedics, USSR study, 9075
inflatables, rotating mandrel speeds assembly of, 7791
infrared spectra, materials developed since 1954, 16766
laminates, device detects unbounded areas, 2398
materials, census of manufactures, industry report, 3893
miscellaneous products, census of manufactures, 1963, industry report, 6904
mulch, effect on weed growth and early height growth of Honduras pine, 16327
PLASTEC notes, 8815–16, 10396, 13255, 17614
PLASTEC report, 4259, 7268, 8817, 14521–522
plastic plus stainless-steel fibers make resilient, impermeable material, 2393
products, census of manufactures, 1963, manufacturing plants, location, 12700
reinforced laminates, effect of thermal cycling on tensile and compressive strength, 2074
shipments of selected products, 1964, current industrial reports, 3923
steady-state ablation of plastic materials, effect of diffusion-controlled char oxidation, analysis, 13847
synthetic components, 10377
thermoplastic and phenolic resin systems, crosslinking, thermal and mechanical properties, bibliography, 10396
U.S. production and sales, preliminary report, 3337
use in armored tank equipment, USSR study, 13571
wood-plastic combinations using gamma radiation to induce polymerization, 12683
wood-plastic composites, engineering and evaluation study for manufacturing, 15534
see also names of articles made from plastics—*also* names of plastics.
Plastics Technical Evaluation Center:
PLASTEC notes, 8815–16, 10396, 13255, 17614
PLASTEC report, 4259, 7268, 8817, 14521–522
La Plata-Animas project, *see* Animas-La Plata project.
Plated ware, census of manufactures, industry report, 3905

Plates:
aluminum/steel wire composite, high tensile strength, 12304
blunt-leading-edge, roughness effects on boundary-layer transition, 15149
elastic, physically nonlinear, stress concentration about curvilinear holes, 4999
extension, effect of orientation of rectilinear crack on its propagation, 2447
fixed vacuum, clamps for machining styrofoam, 12323
flat, with flap and delta wing, etc., hypersonic pressure and heat transfer tests, 15048
rectangular—
moments and reactions, 9640
with linearly varying in-plane and axial load, eigenvalue problem, 15056
sharp and blunt flat plates, pressure, heat transfer, and skin friction at Mach number 6.8, study, 7847
splitter, for aerodynamic separation of twin inlets, 7892
stress concentration in plate of unlimited dimensions with angular notches, reduction, 4995
structural plate corrugated pipe, resistance coefficients, hydraulic model investigation, 8864
suppressor, eliminates undesired arcing during welding, 13792
thin, spray velocity resulting from high-velocity penetration by disks, 16682
uniform, for thin-layer chromatography, 8954
vibration in bending modes using lumped parameters, mathematical model, 9518
see also names of metals, etc., of which plates are made.
Platforms:
combat-expendable, for airdrop of supplies and equipment, 6845
interior servicing platform, simplifies maintenance of storage tanks, 17898
loading environment and related requirements for platform rigged airdrop materiel, military standard, 7265
VTOL blast controlling platform, design and development, feasibility study, 4335
Plating, copper on aluminum, suggested method, 9448
Platinum:
disposal from national stockpile—
law, 8466
reports, 7186, 8579
electrode—
interaction of carbon dioxide with hydrogen chemisorbed, 16764
potential at low partial pressures of hydrogen and oxygen, 17977
metals, mineral industry survey, quarterly, 3326
platinum-group metals, minerals yearbook chapter, 17851
wetting by water, 9595
Platoons:
rifle, Marine Corps, functions, etc., Fleet Marine Force manual, 16548
tank units, Army field manual, 8252
Platt National Park, general information, 13887
Platte River and Valley, water supply outlook and snow surveys, 3688
Platzer, Max F., quasi-slender body theory for slowly oscillating bodies of revolution in supersonic flow, 17966
Play games with baby, guide for parents, 6770
Playas, southern High Plains, hydrology, conservation, and management of runoff water, 15485
Playgrounds, America's national forests, skiing, 3762
Pleasanton Plant Materials Center, relocation, report, 17283
Pleasants County, W. Va., oil recovery by low-pressure gas drive in Keener sand, Bonds Creek oilfield, Lafayette district, 12253
Pleistocene period, *see* Glacial period.
Pliers, modified to facilitate coupling of bayonet-type connectors, 17893
Pliocene period, new stork from Nebraska, 11223
Plotters, calculating and plotting surface wave rays, 13291
Plotting boards and plotting:
plotting, Antisubmarine Warfare Environmental Prediction Services manual, 12410
screw propeller performance curves by digital computers, USSR study, 1049
Plowshare program (civil, industrial, and scientific uses for nuclear explosives):
authorizing legislation, 1967, hearings, 8482
general information, 11443
Isthmian Canal studies, 1964—
construction of Isthmian sea level canal by nuclear methods, 152
excavation with nuclear explosions, 154
general construction plan for sea-level canal, 157
nuclear excavation plan, 153
nuclear operations, 156
on-site survey program, 158
safety evaluation for air blast, ground shock, throwout, and dust, 155
Project Pre-Schooner—
preshot investigations, 151
final report, 14237
reports, 3848–49, 1681–82, 5397, 14239, 15538, 16972, 16973–975
Plugs:
changing water-injection profiles by selective plugging, material required, field study, 4802
keyed, and sockets prevent improper connections, 4875
polarising keys prevent mismatch of connector plugs and receptacles, 12296
rubber, expandable, seals openings for pressure testing, 11022
Plum Brook reactor, *see* Reactors (atomic).
Plumas County, Calif., land conveyance to C. A. Lundy, 15826, 17085, 17417
Plumbers:
employment outlook, 9261
supervisor, examination announcement, 9993
Plumbers' supplies, plumbing fixtures, current industrial reports, 2818, 12721
Plumbing:
equipment, Federal item identification guides for supply cataloging, supplements, 2935
for home and farmstead, 6743
repairs for home and farmstead, 16924
Plumbing fixtures, *see* Plumbers' supplies.
Plumes, *see* Jet plumes.
Plums, production, use, value, by States, 15379
Plutonium:
and other radioisotope sources, discovery to demand (remarks), 6872
commercial, fuels conference, 12678
discovery took place in Room 307 Gilman Hall, dedication as national historic landmark (remarks), 5426
gallium alloy, spectrophotometric determination of gallium, 3847
measurement methods in nuclear fuel cycle, evaluation, 6854
past, present, future (remarks), 5423
Plywood:
Federal item identification guides for supply cataloging, supplements, 2935
imports, 1695
southern pine, standard of trade, 12382
PMOC, *see* Protestant Men of the Chapel.
PMS, *see* Personnel methods series.

Pneumatic binary encoder replaces multiple solenoid system, 15104
Pneumatic conveyors, *see* Conveyers.
Pneumatic separators, quick release to heavy loads, 15093
Pneumatic valves, *see* Valves.
Pneumatic wave generators, *see* Wave generators.
Pneumoconiosis, industrial dust, and incidence of pneumoconioses, USSR study, 6211
Pocahontas coal, *see* Coal.
Pocket guides:
Caribbean, 15503
Greece, 8224
your Washington, nation's Capital, 11132
Poços de Caldas Plateau, uraniferous zirconium deposits, 13395
Podany, Joseph C., citrus prices and market structure in Lower Rio Grande Valley of Texas, 8148
Podarmus ploa, *see* Polynoidae.
Poddar, Dinesh K., relief, 11729, 12901, 14339
Poddar, Girish K., relief, 12901, 14339
Podiatry, *see* Chiropody.
Podocarpus, Java, naturalization in Hawaii rain forest, 2070
Podzol soils, *see* Soils.
Poetry, chaos and control in poetry (lecture), 17821
Pogo, welcome to the beginning, work training, Neighborhood Youth Corps, 2284
Poincaré methods, *see* Equations.
Point Conception, Calif., to Mexican border, 1966, coastal warning facilities chart, 9764
Point Reyes National Seashore:
general information, 17961
land acquisition, clarify and increase authorization—
hearing, 14489
reports, 15922, 16113
Poirier, Ronald, relief, 4079, 12817, 13118
Poisonous and venomous marine animals of world, 8818
Poisons:
acute hydrazine toxicity in mice, biochemical studies, 12630
acute toxicity by soman, USSR studies, 9116
evaluation of p,p'-DDT as reference toxicant in bioassays, 14674
food toxicoses and toxic infections, 17789
household use, regulate, labeling, etc., law, text, 10549
industrial, air pollution, USSR studies, 898
intoxication by organic phosphorous compounds, 10770
lethal poisoning of dogs with soman and prophylaxis with nemikon-4, electrocardiographic observations, Bulgarian study, 13504
marine animals, biochemistry, USSR study, 6203
National Clearinghouse for Poison Control Centers bulletins, 3235
organophosphorous compounds, antidotes used for intoxications, Rumania study, 14844
prevention law, general information, 7449
radioelements, toxicity, AEC research program, 8306
teaching poison prevention in kindergarten and primary grades, guide, 6578
toxic and serological shifts in blood of burned animals, USSR study, 14879
toxic properties of V gases, Polish study, 13531
vapor toxicity of new antidetonator, manganese cyclopentadienyltricarbonyl, 899
weapons against, USSR study, 4595
see also Food poisoning—*also* names of poisons.
Poland:
aviation certificates of airworthiness for imported civil glider aircraft, agreement, 1499
background notes, 8049
cotton textiles, trade agreement, 15371
defection of Wladyslaw Tykocinski, testimony, hearing, 15995
emigre writings, critique of historical authenticity of published documents, 7590
foreign currencies, U.S.-owned, report, 17353
labor conditions, 13642
millennium, 5-cent commemorative postage stamp (poster), 13924
mineral industry, minerals yearbook chapter, 2341
1,000th anniversary of founding, commemorative medals, report, 11783
patents, abstracts, translations, 3585
provincial press, summary, 3561
Soviets and the seas, report of U.S. congressional delegation, report, 12988
Warsaw Pact, Yugoslav analysis in relation to NATO, 14812
world atlas by Army Topographical Service, 2164
Polar aurorae, USSR, 6105
Polar regions, *see* Antarctic regions—Arctic regions.
Polarimeters, *see* Polariscopes.
Polaris (star), *see* Pole star.
Polariscopes:
development of instrument for detection of extraterrestrial life, 9399
digital polarimeter, duty-free entry, 389, 542
Polarization (radio):
antenna configurations provide diversity, 6392
nonreciprocal circular polarizer, 1361
Polarizing keys prevent mismatch of connector plugs and receptacles, 12296
Polarography, technic for oxygen concentration, temperature, and viscosity determinations, 5334
Polatty, James M., laboratory design, analysis and field control of grouting mixtures employed at nuclear test in salt, 3853
Pole star, ephemeris, 1098, 17819
Poles:
telephone poles, service life on Island of Hawaii, 10583
wood, derivation of fiber stresses from strength values, 4464
Police:
Capitol, employ additional personnel, report, 12926
District of Columbia—
Police Department Band, include members of Fire Department, etc., report, 15872
Police Department reorganization, Congress to review report of D.C. Crime Comm. first, report, 12986
report of President's Commission on Crime in D.C., 15262
retirement benefits for older totally disabled, report, 15853
salaries, increase—
hearings, 10237, 10338
reports, 15853, 16139, 17312
policemen and policewomen, employment outlook, 9239
traffic supervision, highway safety action program, brief outline, 11205
United States Park Police, salaries, increase, hearing, 10338
White House force, salaries, increase, hearing, 10338
see also Military police.
Policemen, *see* Police.
Policewomen, *see* Police.

Policy Advisory Committee, report to District of Columbia Commissioners, hearings, 7131
Polish American Congress, Inc., medals commemorating 1,000 anniversary of founding of Poland, report, 11783
Political activities, *see* Politics.
Political Activity of Government Personnel Commission:
create—
law, 17115
report, 17234
Political campaigns, *see* Elections.
Political corruption, preventing, Federal elections act of 1966, report, 16093
Political geography, China, 14808
Political science:
classification, Library of Congress, 13652
USSR, theoretical articles, 2257
Political scientists, employment outlook, 13594
Politics:
Communist China, translations, 3590
Eastern Europe, translations, 3328
employees of community action agencies and VISTA, prevent engaging in pernicious political activities, hearings, 14498
Indonesia's political history and Oct. 1 coup, Swedish leftist view, 14902
North Korea, translations, 3591
North Vietnam, translations, 3592
political activity, Federal officers and employees legal restrictions, 9998
political changes in Turkey, 7568
problems of Italian left and unification, 13485
Syria, current political situation, Soviet view, 12119
Polk County, Fla., economic geology, 12011
Pollack, Gerald A., remarks, June 22, 1966, 11531
Pollen traps, simplified, for use on colonies of honey bees, 9773
Pollination, *see* Fertilization of plants.
Pollucite, ore, volatilization of cesium chloride, 12247
Pollution-caused fish kills, 13332
Pollution of air, *see* Air pollution.
Pollution of streams, *see* Water pollution.
Pollution of water, *see* Water pollution.
Polyarylates, USSR, 2249
Polybenzimidazoles, review, 14522
Polychaeta, *see* Annelids.
Polyelectrolytes:
complexes as reverse osmosis and ion-selective membranes, 6064
membrane phenomena, correlation of structure with functional properties, 10678
Polyethylene:
penetration into aluminum, at high velocities, 7882
plastic squares for reducing weed growth around newly planted trees, 16327
see also names of manufactured articles.
Polyethylene terephthalate, insulated ribbon wire, transient effects caused by electron irradiation, effects of shunt capacitance, 7849
see also Mylar.
Polyglucine:
experiments, use as blood and plasma substiutes, USSR studies, 949
treatment of edematous states, USSR study, 14906
used in blood transfusion and radiation sickness, USSR study, 4596
Polygons, ground, large scale patterned, origin and environmental significance, Donnelly Dome area, Alaska, 1637
Polygraphs:
use as lie detectors by Federal Government—
hearing, 4133
report, 15930
Polyimides, *see* Amides.
Polymers and polymerization:
compatibility of polymeric materials with fluorine and fluorine-oxygen mixtures, 12340
deformation gauge measures thickness change in tensile tests, 7801
dielectric properties of polymers, bibliography, 13255
high polymers, thermal degradation, oxidation and analysis, literature survey, 8816
high, protodegradation, 2496
inorganic, adhesive restorative dental materials, literature survey, 2498
microbial polymers, preliminary cost estimate, 9787
new class of stepladder and ladder polymers, polyimidazopyrrolones, 2431
new polymer systems for reverse osmosis membranes, research and development, 4558
photodegradation of high polymers, 5074, 6550
polyimide, etc., friction and wear characteristics in vacuum, 6441
polymer film exhibits thermal and radiation stability, 6369
preparation of wood-plastic combinations using gamma radiation to induce polymerization, 12683
silazane polymers show promise for high-temperature application, 12293
substituted silane-diol polymers have improved thermal stability, 12301
synthesis of high molecular compounds by radiation polymerization method, USSR study, 9069
Polynoidae, pelagic Podarmus ploa Chamberlin, redescription, 7939
Polynomials, Chebyshev, planetary perturbations, 4922
Polypeptides, *see* Peptides.
Polyphenyl ethers at reduced pressures, rolling-contact lubrication studies, 4909
Polyserositis, diplococcal, threefold reanimation from clinical death caused by, USSR study, 2258
Polysiloxanes, *see* Siloxanes.
Polystyrene:
films, photolysis in vacuum and in air, 2496
photolysis, solvent effects, 5074
Polytetrafluorethylene:
coatings on elastomeric vulcanizates, wear durability improvement, 1378
corrosion resistance of flame-fused teflon-coated magnesium and aluminum alloys to sodium chloride solutions, 12432
lubricates ball bearings in vacuum environment, 6405
PTFE-aluminum films serve as neutral density filters, 4854
TFE-fluorocarbon resin sintered thin coatings for dry film lubrication, standard of trade, 13857
Polyurethanes, *see* Urethanes.
Polyvinyl pyrrolidone, administration, for prolongation of effect of monomycin in infectious foci, USSR study, 6124
Pomegranates, production, use, value, by States, 15379
Pomerat, C. M., observations on newborn rat dorsal root ganglia in vitro following gamma irradiation, 3796
Ponderosa pine, *see* Pine.
Pondfish, dealers, list, 10532
Pontius, Paul E., measurement philosophy of pilot program for mass calibration, 11097
Pontoons, Federal item identification guides for supply cataloging, supplements, 2940
Poor housekeeping breeds fires, safety and fire protection bulletin, 18133
Popenoe, Peter, aeroradioactivity survey and areal geology of Denver area, Colo., 12670

Popoff, Constantine C., computing reserves of mineral deposits, 9359
Poppa, Helmut, electrode phenomena in high energy density discharges as applied to plasma acceleration problems, 12266
Poppet valves, *see* Valves.
Popular names of U.S. Government reports, catalog, 16546
Population :
Americans at mid-decade, 3927
census, 1790 to 1960, inquiries included, 12729
census, 1960—
age of foreign stock by country of origin, 211
final reports, 3939, 8371, 11479
marital status, 3939
procedural history, 11460
supplementary report, 211, 1705–6, 6917–18
census publications, price list, 5101
challenge, what it means to America, 6056
characteristics, census 1960—
labor reserve, 1705
marital status and age at 1st marriage, 1706
Negro population by county, 6918
characteristics, Los Angeles, south and east areas, 12724
crisis, hearings, 4224, 8778, 10349, 14484, 17582
current population reports, 2819
consumer buying indicators, 268, 5496, 11474, 14278
consumer income, series, 8364, 14277, 15592
population characteristics, series, 266–267, 3925–26, 5486–87, 6924–25, 8359, 14270–271, 17007
population estimates, series, 1737–38, 3928–29, 5488–91, 6927–31, 8360–62, 9964, 11467–470, 12725, 14273–276, 17008–9
population estimates 1950–65, United States, 1738
special censuses series, 2930–31, 5492–95, 6931–32, 8363, 9965, 11471–472, 12726–727, 17010–11
technical studies, 1736, 3927, 6926, 12724, 14272, 15591
data controls, Atlantida, case study in household sample surveys, 6937
developing countries, keeping food production apace with human reproduction (address), 14129
estimation, illustrative procedure of component method, 9964
farm, 1965, United States, 8358
estimates, 14537
farm, series Census ERS, 8358
food-population problem and future of man (address), 9834
household and family characteristics, 17007
large metropolitan areas, estimates, 8361, 11469, 14274
metropolitan areas, largest standard statistical, 6928
mid-decade census, take in 1966 and 1975, etc., report, 481
migration report (series), 631, 7295
mobility, 6925
more effectively using space for people (address), 9808
national census survival rates by color and sex, 1950–60, errata, 1736
Navaho Indians, analysis of sources of information—
departmental edition, 15498
document edition, 15779A
Negro—
characteristics, 5486
distribution, 6917
New Caledonia, population and economy, 12137
Population—Continued
poverty areas, family characteristics, 14272
Puerto Rico and outlying areas, 1950–65, estimates, 8362
self-defense against bacteriological weapons, USSR study, 4646
Soviet papers contributed to UN world population conference, Belgrade, 10731
special censuses conducted by Census Bureau, summaries, 3930, 6932, 7010, 8363, 11471–472, 12727
State and local estimates, inventory of agencies preparing, survey, 5491
States, estimates, 3929
States, illustrative projections, 5489
United States—
by metropolitan and nonmetropolitan residence, 8359
current survey, origin, method, and evolution, 15593
estimates, 267, 1737, 3928, 5490, 6930–31, 8360, 11467–468, 14273, 14276, 17008–9
estimates and components of change, 6929
projections of white and nonwhite population to 1985, by age and sex, 14275
revised projection by age and sex to 1985, estimate, 6927
USSR, policy, etc., 14372
voting age, for States, projections, 5488, 11470
world population and food crisis, hearings, 7107, 8645
print additional copies, reports, 17278, 17544
staff summary of testimony, 7110
X-ray exposure 1964, report on PHS study, 18067
see also Demography.
Population (mathematics) :
models to test theoretical effects of sex attractants used for insect control, 9815
Population Problems Office, Health, Education and Welfare Dept., create, hearings, 4224, 8778, 10349, 14484, 17582
Population Problems Office, State Dept., create, hearings, 4224, 8778, 10349, 14484, 17582
Porcelain enamel, *see* Enamel.
Pork :
fresh, meatpackers' cost, 625
fresh, purchase specifications, institutional, approved by USDA, 7242
Porosity :
interrow zone, influenced by tillage, 9791
method-dependent values of bulk, grain, and pore volume as related to observed porosity, 7480
Porous materials :
electron beam seals outer surfaces of porous bodies, 6363
oxidation-reduction reaction process reduces pore diameters to produce superior filters, 6365
Port, *see* name of port, except when occurring as first word of name of town, etc.
Port Arthur, Tex. :
area wage survey, metropolitan area, 13599
commodity transportation survey production area series, 8346
Port Everglades, Fla., port, 13294
Portable lightweight cell provides controlled environment, 15100
Portable surfacing for U.S. Army pioneer-type runways, laboratory and engineering field tests, 4340
Portable tool removes burrs from pipe and tubing, 1235
Porter, Bernard :
density and molar volumes of binary fluoride mixtures, 16581
reaction rate of uranium metal with uranium tetrafluoride in molten fluoride solutions, 6322

Portland, Maine:
area wage survey, 6261
nursing homes, conditions and problems, hearings, 1926
Portland, Oreg.:
area wage survey, metropolitan area, 16529
port, relief, report, 1917
principal electric facilities, map, 7377
Portland cement, *see* Cement.
Portman, Donald J., visual resolution and optical scintillation over snow, ice and frozen ground, 8233
Portrait of median city, capsule view of social welfare programs in United States, 16905
Portraits, *see* names, etc., of subjects sitting for portraits.
Portraits in community health (series), 1429
Ports:
code classification used in compiling U.S. foreign trade statistics, schedule D, 3936, 5457
distances between ports, 6524
export corn meal port bulletin, 2894
export wheat flour port bulletin, 2900
foreign, code classification, schedule K, change, 5498
inspection services, costs at ports of entry—
hearings, 10034
report, 14460
ocean, economic impact, 14988
port series, 13293–294
see also names of ports, or places where located.
Portsmouth, Va., area wage survey, metropolitan area, 14974
Portugal:
atomic energy cooperation for civil uses, agreement, 6645
background notes, 16852
corporations, newly elected presidents and senior officers, 4687
foreign trade regulations, 17056
labor conditions, 13643
mineral industry, minerals yearbook chapter, 4774
Portuguese East Africa, Mozambique, background notes, 8047
Portuguese Guinea, *see* Guinea.
Portuguese West Africa:
Angola—
background notes, 8037
mineral industry, minerals yearbook chapter, 6294
Portuondo, Alonso, relief, 15683, 15795, 16007
Position classification, *see* Classification.
Position-classification standards, 3329
Position finding, acoustic ray ship positioning and tracking system, 6545
Possessions of United States, *see* Outlying possessions.
Post-graduate work, *see* Colleges and universities.
Post Office and Civil Service Committee, House:
activities, 89th Congress, 1st session, summary,
calendar, 3123
committee prints, 524, 1864, 4142, 5702–3, 7158–60, 7162, 8675, 8677, 10260–261, 14434–435, 17391
hearings, 523, 4143, 5704–5, 7157, 7161, 8676, 10258–259, 11673–680, 13054–55, 14436, 15985–986
investigations and studies—
Defense Dept. civilian manpower policies in Far East and Western Europe, authorization, report, 17301
expenses, reports, 493, 4106
reports, 481, 489, 1821–22, 1834, 1844, 5638, 5669, 7078, 7093–95, 8591, 8596, 10164–165, 10220, 11624, 12941, 12943–944, 15868, 17194, 17229, 17257–258, 17260–262
Post Office and Civil Service Committee, Senate:
calendar, 3141
hearings, 5822–24, 7233–34, 8788, 10365, 11827, 14502, 16197, 17595–596
investigations and studies, authorization, reports, 4165, 4199
reports, 4165, 4173, 5789–91, 7178–79, 8722–24, 10307, 11781, 14465, 16065–66, 16069–70, 17418, 17475–476, 17484, 17541
Post Office Department:
accelerated business collection and delivery program, Boston, Baltimore, and Washington, D.C., post offices, GAO review, 10625
additional Assistant Postmaster General—
hearing, 11673
law, 12823
reports, 10164, 16066
Advisory Panel on Postal Rates, report, 10260
agreement with American Federation of Labor and Congress of Industrial Organizations, 16779
agreements with employee organizations, 17989
appropriations, 1966, budget amendments, 8691
appropriations, 1967—
hearings, 7114, 10322
law, 15699
reports, 8598, 11625, 13122
appropriations, transfers—
law, 12827
reports, 7093, 16065
Assistant Postmaster General, nomination of Leo S. Packer, hearing, 16197
construct buildings, authorize, hearings, 10370
contractor-furnished personnel, use in violation of statutes governing Federal employment, GAO report, 4507
cost ascertainment report, 6563
Eau Gallie, Fla., employees relief, 8530, 11544, 11733
facilities handbook series, 12453
general counsel, nomination of Timothy James May, hearing, 7234
information service IS series, 1395
labor-management relations (address), 13920
leasing property by Postmaster General, extend authority—
hearings, 10370
law, 17129
reports, 12941, 13161, 16127
motor vehicles, replacement and procurement program, GAO review, 14738
parcel post legislation requested by Postmaster General, 5702
postal manual, 3332
posters commemorative stamps, 2510, 2759, 5086–88, 6561–62, 7984, 9611–15, 11172, 13921–925, 15259–260, 16780–783
press releases—
general, 3397
philatelic, 3397
public service industry (address), 16777
report, 1965—
departmental edition, 5089
document edition, 4051
report on postal rates, 10101
savings available if uniform items are furnished postal employees in lieu of allowances, GAO report, 16350
savings available through more extensive use of contract vehicle service and certain mail-handling equipment, GAO report, 809
supervision over city delivery carriers, GAO report, 6017

Post offices:
construct buildings for postal purposes, authorize, hearings, 10370
directory, with ZIP code numbers, 6564, 17988
leases, extend authority, hearings, 10370
manual, 3332
occupations, employment outlook, 9309
personnel handbook, 3330
revenues and classes, 2511
Worldway Postal Center, Los Angeles, Calif., construction information, 6565
Postage:
classroom training cards, extend special 4th class rates, hearing, 523
meters, use in postal service, hearing, 5705
rates—
Advisory Panel on Postal Rates, report, 10260
4th-class mail, revise—
hearings, 10259, 14502
law, 15762
reports, 10165, 17484
Post Office Dept. report, 10101
2d and 3d class, for volunteer fire, ambulance, and rescue companies, extend, report, 12943
Postage stamps:
commemorative—
2-cent Frank Lloyd Wright regular (poster), 9611
4-cent humane treatment of animals (poster), 6561
5-cent—
American circus (poster), 7984
beautification of America (poster), 15259
beautification of America, 1st day ceremony (remarks), 16784
Bill of Rights (poster), 11172
Christmas (poster), 16780
General Federation of Women's Clubs (poster), 13921
Great River Road (poster), 16781
Indiana statehood (poster), 6562
Johnny Appleseed (poster), 15260
Marine Corps Reserve (poster), 13922
Marine Corps Reserve stamp, Iwo Jima Memorial (address), 15258
Mary Cassatt American painting (poster), 16782
migratory bird treaty (poster), 5086
National Park Service (poster), 13923
Poland's millennium (poster), 13924
regular stamp in coils (poster), 13925
servicemen-savings bonds (poster), 16783
SIPEX (poster), 9613
SIPEX souvenir sheet (poster), 9614
Washington regular (poster), 5087
6-cent Roosevelt regular (poster), 2510
8-cent Albert Einstein (poster), 5088
posters, 2759
Roosevelt, Franklin D., stamp, dedication (address), 5084
4-cent regular postage stamp in coils (poster), 9612
philatelic releases, 3397
United States, July 1, 1947—Dec. 31, 1965, description, 11173
Postal bulletin, *see* Postal service.
Postal cards, 11-cent international air mail, 9615
Postal contracts, *see* Postal service.
Postal rates, *see* Postage.
Postal Rates, Advisory Panel, *see* Advisory Panel on Postal Rates.
Postal routes, *see* Postal service.
Postal Savings System:
discontinue—
hearings, 5824
law, 7041
report, 5791
report of operations, 4056
Postal service:
accelerated business collection and delivery program, Baltimore, Boston, and Washington, D.C., post offices, GAO review, 10625
Armed Forces, mailing privileges, provide—
law, 417
report, 489
Armed Forces overseas, mailing privileges, provide better service—
hearings, 7157, 11827
reports, 7094, 17284, 17475
Armed Forces, review of 7025 Air Postal Group, Europe—
hearing, 4143
report, 5638
Armed Forces, Vietnam and Thailand, on-site inspection, report, 17258
city delivery, supervision over carriers, Post Office Dept., GAO report, 6017
code of Federal regulations, 10496
cooperation (address), 5083
data by class of mail, 4142
dedication of self-service postal unit, Springfield, Mass. (address), 16776
employees, salary rates, 7159, 14434
employees, savings available if uniform items are furnished in lieu of allowances, GAO report, 16350
field service, qualification standards, 303, 308, 1762, 3436
improve (addresses), 1394, 5085, 11170, 13916–917, 16775
investigation, extension, report, 4165
laws, changes, 12454
mail transportation by regulated motor carrier, hearings, 11675, 14436
objectives (address), 13919
position descriptions and salary schedules, 3330
postal bulletin, 3331
publications, price list, 6568
special services performance cost ascertainment report, 6563
star route contract prices, cost-of-living adjustments—
reports, 1834, 11781
veto, 12859
State postal maps, 13927–946
summer jobs, temporary, examination announcement, 3982
Universal Postal Union—
constitution, convention, etc., 6640
history, etc., 1395
use of postage meters, hearing, 5705
VIM, vertical improved mail system in Life of Georgia Tower, Atlanta, Ga. (addresses), 2508
Zip code system, encourage use by volume mailers, hearings, 11680
see also International postal service—Mail handlers—Mail matter.
Postal Union, Universal, *see* Universal Postal Union.
Poste totemico Indio Haida en Saxman, Estado de Alaska, 15406, 15408
Posters:
America the beautiful (series), 9660–9711
American soldier, 1863–1963, uniforms, 3812
Consumer and Marketing Service, 7247
DSA poster series, 13253, 14523
Food and Drug Administration, 13351
Forest Service, how a tree grows, 7456
Forest Service, what we get from forest land, 802
get your A for health, eat type A school lunch every day, 10374
know the eggs you buy, 17601
Post Office Department, commemorative stamps, 2510, 2759, 5086–88, 6561–62, 7984, 9611–15, 11172, 13921–925, 15259–260, 16780–783

Posters—Continued
sold by Superintendent of Documents, price list, 1409
U.S.T.S. colored poster series, 14055–61, 15405–410
Postgraduate School, Naval, *see* Naval Postgraduate School, Monterey.
Postgraduate work, *see* Colleges and universities.
Postmaster General, *see* Post Office Department.
Postmasters:
examination announcements, 3970–72, 15628
4th class, examinations, instructions to applicants, 15631
Posts:
treated wooden guardrail posts, market opportunities in West Virginia, 791
wood, Hawaii, durability test, 2d progress report, 10579
Potash:
fertilizer situation, 8141
minerals yearbook chapter, 16570
Potash feldspar, *see* Feldspar.
Potassium:
high-temperature properties, 1356
oxygen determination—
accuracy of methods, 15135
neutron activation analysis procedures, 7744
refluxing, compatibility with columbium and tantalum tubing alloys, 9542
thermophysical properties, summary, 4904
transport mutant of Escherichia coli B, analysis of movements, 8215
vapor, nozzle expansion and flow characteristics, 4953
Potatoes:
acreage, yield, etc., by States and seasonal groups, 14037
flakelets, effect of nonfat milk solids on storage properties, 12583
frozen french fried, U.S. standards for grades, 10378
futures—
commitments of traders, 2764
prohibit trading on commodity exchanges, hearings, 11639
trading and open contracts, 3012–13
Irish, utilization, 15381
Maine, futures, 8444
spring, acreage-marketing guides, 1952
storage 60,000 cwt. door-per-bin, 12610
summer and fall, acreage-marketing guides, 5829
total stocks, monthly report, 3583
see also Sweetpotatoes.
Potential:
biharmonic, use as aid in formulation of problems of finding stress functions, 5000
functions, empirical and semi-empirical interatomic and intermolecular potentials, survey, 16715
magnetic breakdown in finite 1-dimensional model, infinite potential relaxed, 7823
terminated image, thermal field emission, 6354
Potentiometers:
automatic, checking proper operation, USSR study, 13469
high-precision, life and performance reliability, 1374
Potomac River and Valley:
channel, land and water problems (remarks), 6778
estuary, water quality, 14749
Fourteenth Street Highway Bridge, replace superstructure—
hearings, 11646
law, 17122
reports, 12915, 16147
model of scenic and recreational values, preliminary report, 12047
Potomac River and Valley—Continued
Potomac watershed, interim report to President, 4549
Washington Channel bridge, designating Francis Case Memorial Bridge, report, 479
Potomac River Basin Advisory Committee, Potomac Watershed, interim report to President, 4549
Pottery, pottery and related products, census of manufactures, 1963, industry report, 5444
Potting compounds, *see* Sealing compounds.
Potting media for Honduras pine, 16328
Poultry:
broiler houses in central Mississippi, field studies of use of insulation, 10
culling hens, 15444
factors that influence demand, customer's opinions (remarks), 3749
Federal loan for processing plant in New Castle, Pa., hearing, 4117
foreign agriculture circulars, 2987
hatchery production, 3034
health requirements, etc., government movement, 3733
home canning, 6748
in family meals, 6749
industry, organization and competition, 16721, 16724
inspectors' handbook, 13240
inventory, 6659
market statistics, 6780
national improvement plan—
breed distribution of participating flocks, 8128
hatcheries and dealers participating, 5267, 9778
hatchery and flock participation, tables, 1574
record of performance, test summary, 6711
parts chart, 1598
plants operating under inspection and grading programs, lists, 592, 7243
poultry and egg situation (periodical), 3333
processing plants, chemical compounds authorized for use under USDA inspection programs, lists, 10376, 16201
roosters, testicular function after exposure to increased partial pressure of oxygen, 12631
slaughtered under Federal inspection, monthly report, 3334
statistical series, selected, 10413
USDA grades, how to buy, 14139, 16936
used in canning and processed foods, monthly report, 3334
see also Chickens—Diseases of poultry—Food for poultry—Turkeys.
Poverty:
American families in poverty, fact sheet, 1552
antipoverty in District of Columbia, United Planning Organization, investigation, hearing, 14415
areas, families residing in, population characteristics, 14272
children, National Teacher Corps to reach and teach, 8849, 11876
children of the poor, improving opportunities and achievements, 10402
church and antipoverty program, manpower policy and program, seminar, 17801
community development district of 1966, rural poverty program—
hearings, 8761, 14403
report, 8740, 12918
District of Columbia—
investigation hearings, 4129
task force study, 11650
economic level, changes 1960–65, in 9 Cleveland neighborhoods, 15591

Poverty—Continued
economic opportunity act—
amend, hearings, 8666, 13059, 14498
report, print additional copies, report, 13007
reports, 10185, 12945, 12950, 16162, 17333
text as amended, 5862
education, an answer, 4299
education, answer to poverty, school programs eligible for Federal aid, 13270
employed poor, their characteristics and occupations, 10877
first step on long journey, Economic Opportunity Office's Congressional presentation, 617
growing up poor, child-rearing and family life patterns, 11319
law and poverty, national conference, June 23–25, 1965, proceedings, 8822
legal services to poor, programs, guidelines, 7279
low-income life styles, 14078
New York City facts (paper), 6271
program information, status, 8828
program, intergovernmental relations, commission report, 12578
rural, Farmers Home Administration reduces, 8160
rural poverty program, message from the President, 5604
war on poverty—
advisory councils, monthly newsletter, 13257
communities in action (periodical), 2776, 8821
community action program, hometown fight, 7285
consumer action, conference proceedings, 7274
helping people help themselves (talk), 6698
news summary, 8826
rural opportunities (periodical), 10405
State minimum wage legislation, use as weapon, 15431
summer volunteer service, general information, 10406
through economic opportunity loans for small business, 18094
Upward Bound, war on talent waste, 10407
VISTA and its services (address), 8417
war on poverty as it affects older Americans—
hearings, 568, 4290, 8760
report, 11780
print additional copies, report, 10289
Povinelli, Louis A., one-dimensional nonlinear model for determining combustion instability in solid propellant rocket motors, 9533
Powder metallurgy, *see* Metallurgy—*also* names of metals, etc.
Powdered carbon, *see* Carbon.
Powders:
standard X-ray diffraction patterns, 15206
submicron metal powders produced by ball milling with grinding aids, 11015
Powell, Clemans A., jr., vibrational characteristics of sandwich panels in reduced-pressure environment, 15163
Powell, R. C., accuracy in electrical and radio measurements and calibrations, 1965, 1298
Powell, R. S., analysis of F-corona according to Mie theory, 9437
Powell, Sheppard T., engineering evaluation of factors affecting quality of water sources available for saline water conversion plants, 13435
Powell River and Valley:
economic and resource development, summary, 2603
geology and mineral deposits of area, 13400
Power:
Brayton-cycle space power system, radial-inflow turbine, evaluation, 4977
conservation, code of Federal regulations, 8921
Federal power act, amend, hearings, 1931
fluid power systems equipment, shipments and end use, 8317
large space systems, weight study of radiators, 4963
machinery, USSR industrial development, translations, 3666
motive, for class 1 railroads, 3227
Northeast power failure, Nov. 9–10, 1965, hearings, 15977
TVA power and taxes, 5188
see also Atomic energy—Electricity.
Power generators:
nuclear, space, hearings, 5591
special purpose equipment, operator training course, Army pamphlet, 6838
Power lines, *see* Electric lines.
Power mowers, injuries and young workers, 10849
Power plants:
third, at Grand Coulee Dam, construction, etc.—
appropriations, 15784
authorize—
law, 11557
reports, 8595, 8602
see also Electric power plants—Nuclear reactor power plants—Reactors (atomic).
Power reactors, *see* Reactors (atomic).
Power supplies, control circuit maintains unity power factor of reactive load, 16645
Power switching in digital systems, 13814
Power tools:
modified, rapidly drives series torque bolts, 6380
portable machines weld joints in field, 7799
Power transformers, *see* Electric transformers.
Power transmission:
equipment, mechanical, Federal item identification guides for supply cataloging, supplements, 2932
hypercritical shafts on flexible supports, behavior of floating ring dampers, 136
shaft-driven heavy lift helicopters, 137, 1672
voltage-drop mode in 300–500 kilovolt electric power transmission, economic effectiveness, USSR study, 9077
Power truck operators, employment outlook, 9237
Power Use Conference, Portland, Oreg., proceedings, 8309
Powerplants, *see* Power plants.
Powers, Bruce G., deep-stall pitch-up characteristics of T-tail transport aircraft, 13803
Powhatan Game Management Area, prescribed burn, effect on habitat, 16329
Poynting theorem, *see* Electromagnetic radiation.
Pozas, Delma S., relief, 5741, 12895, 15686
Prabhu, Albert V. M. Ferris-, *see* Ferris-Prabhu, Albert V. M.
Practical nurses, *see* Nurses and nursing.
Practice, *see* Training.
Practitioners:
characteristics of patients, 9632
working with older people, practice guide, 15312
Prandtl number, non-isoenergetic turbulent ($Pr_t=1$) jet mixing between two compressible streams at constant pressure, 9397
Praseodymium oxides, high-temperature heat contents and entropies, 12248
Pratt, James W., proceedings, conference on methodological approaches to population studies in diabetes, 15294

Pravda (periodical):
editorials, translations, 3593
Prayers:
offered by late House Chaplain Bernard Braskamp, 15780
print as H. doc., report, 10192
public schools, proposed constitutional amendment, hearings, 16191
PRB, *see* Public Roads Bureau.
Preamplifiers, *see* Amplifiers.
Precious stones:
gem stones, minerals yearbook chapter, 15007
gems in Smithsonian Institution, 5139
Precipitation:
doppler radar measurements of turbulence, 16412
formation in warm clouds, statistical theory of microphysical mechanisms, Communist China study, 6199
harmonic periods, forecasting from, 9648
hourly data, by States, etc., 3045
normal annual total, maps, 5896
normal monthly days with precipitation of 0.5, 1.0, 2.0, and 4.0 inches or more in conterminous U.S., 14077
normal monthly total, maps, 1995
Pacific Northwest, monthly, 3307
seasonal, synoptic-statistical method for forecasting anomalies, USSR study, 14876
Tennessee River basin above Chattanooga, probable maximum and TVA, 1534
Tennessee River basin, monthly, 3336
usable, increase, hearings, 11798, 13198
see also Rain—Weather control.
Precipitation (chemistry):
calcium sulfate, investigation, 10673
removal of scale formers from sea water, 10677
Precipitation response to human serum by rabbit population, 8218, 9870
Precision instruments, USSR industrial development, translations, 3667
Precooling, *see* Cooling.
Predators, mammals, hearings, 11672
Prediction (psychology):
Air Force Academy cadets, class of 1966, 1st year achievement, 8198
solar flares prediction, adaption of evolutionary programming, 9396
success in Army aviation training, 3843
Prednisolone, effects on corticosteroid levels in parotid fluid, serum, and urine, 9868
Prefabricated buildings, *see* Buildings.
Preferential allowances, *see* Wages.
Premarital examinations:
District of Columbia, require—
law, 17148
report, 17286
Premium pay, *see* Hours of labor.
Premiums (insurance), *see* Life insurance.
Prepackaging, *see* Packaging.
Preparation of teachers of the deaf, 13279
Preparedness, *see* Civilian defense—National defense.
Presbrey, C. H., jr., logarithmic sweep for use in display of long pulses, etc., 12434
Preschool children, *see* Children.
Pre-Schooner Project, *see* Project Pre-Schooner (field cratering experiment).
Prescott quadrangle, Ariz., geology, 818
Preservation of food, *see* Food.
Preservation packaging and packing of military supplies and equipment, DSA manual, 7258
Preservatives, *see* Wood preservatives.
President of United States:
addresses, etc.—
Sept. 21, 1965, 1397
Jan. 12, 1966, excerpt, 5152
Feb. 23, 1966, 9721
May 26, 1966, 16843
Aug. 19, 1966, 15261
President of United States—Continued
American petroleum interests behind Faisal-Johnson discussions, USSR study, 13459
code of Federal regulations, 7384, 14636
economic report—
departmental edition, 5091
document edition, 4063
excerpts, 7210
extending date for transmission, law, 5576
hearings, 7050
report, 8547
election campaign fund act, report, 17521
election, reform electoral college system, message from the President, 4068
inability and succession to office, proposed constitutional amendment, report, 1838
inaugural addresses, George Washington to Lyndon B. Johnson, 456
inaugural ceremonies act, amend, report, 15870
messages, *see*, in main alphabet, subject of message.
papers, announcement and order form, 1402
papers, Truman, Harry S., 5952
Presidential documents, weekly compilation, 3698
press releases, 3398
state of the Union message, 5599
excerpts, 7210
tax program, 5194
tax recommendations, summary, etc., 4152
veto messages—
MacDonald, Gilmour C., 17170
Staiman Bros.-Simon Wrecking Co., 457
star route contract prices, 12859
Youth Councils on Civic Affairs, incorporate, 462
see also Kennedy, John F.
Presidential Election Campaign Fund Advisory Board establish, report, 17521
President's Commission on Crime in District of Columbia:
appropriations, 1967—
hearings, 15955, 17567
reports, 15938, 17539
Metropolitan Police Department, report, 15262
President's Commission on Law Enforcement and Administration of Justice:
appropriations, 1967—
hearings, 15955, 17567
reports, 15938, 17539
President's Commission on Status of Women, why commission, operational procedures, etc., 11329
President's Committee for Traffic Safety, action program, report, 1449
President's Committee on Employment of the Handicapped:
building and maintaining community support, 9197
minutes of meeting, 17807
national ability counts contest for 11th and 12th grade students, announcement, 7650
performance, story of the handicapped, 3319
press releases, 3399
pursuit of happiness, program guide, 14966
President's Committee on Equal Employment Opportunity:
committee reporter (periodical), 2766
information, newsletter, 3065
President's Council on Aging, newsletter, 3272
President's Council on Physical Fitness:
4 years for fitness, 1961–65, report, 2514
newsletter, 3273
teaching lifetime sports skills, 13948

President's reorganization plans, *see* Government reorganization plans.
President's Science Advisory Committee:
oceanography panel, report, 13947
report, 12455
Presler, Alden F., heat transfer to turbulent flow in smooth tubes for reacting N_2O_4–NO_2 system, 4964
Presman, Mario, relief, 8699, 15674
Presque Isle Peninsula, beach nourishment requirements, 8858
Press:
Albania, information report, 3339
Bulgarian provincial, summary, 3557
criticism of Soviet scientific press, 14927
Czechoslovak provincial, summary, 3558
Hungarian provincial, translations, 3559
Latin American, glossary of abbreviations used, 10750
Polish provincial, summary, 3561
reports, building rural America, rural areas development, 14597, 17644
Rumanian provincial, summary, 3562
Ukrainian emigre, comments on minorities in USSR, 6170
see also Liberty of the press.
Press releases, *see* names of offices issuing releases.
Press reports about work experience program of Economic opportunity act, 13303
Presser, Abraham, relief, 11713
Pressmen, large presses, offset, examination announcement, discontinuance notice, 8399
Pressure:
aerodontalgia under hyperbaric conditions, 14095
application, calibrated clamp facilitates, 8385
Apollo afterbody, with and without ablation, 16683
Apollo command module, effect of protuberances, etc., 16647
boundary layer, panel response to fluctuations, 10967
constant, non-isoenergetic turbulent Prandtl number jet mixing between two compressible streams, 9397
culvert, Greenup Lock, Ohio River, Ky., hydraulic prototype tests, 16249
distributions, and heat-transfer on 60° and 70° swept delta wings having turbulent boundary layers, 16697
distributions, due to 2-dimensional fabrication-type surface roughness on ogive cylinder at transonic speeds, 15148
distributions, sonic-boom, effect of body shape, 1270
distributions, transonic, over protuberances and adjacent areas in proximity to nose of launch vehicle, 7821
disturbances in rocket propellant feed systems, distributed parameter analysis, 13833
drags, due to 2-dimensional fabrication-type surface roughness on ogive cylinder, 15151
drop—
condensation of nonwetting mercury in uniformly tapered tube in 1-g and zero-gravity environments, 4933, 15134
nonwetting, condensing flow of mercury vapor in constant-diameter tube in 1-g and zero-gravity environments, errata, 15133
wetting and nonwetting mercury condensing in uniformly tapered tubes, 4974
dynamic, acceleration-compensated transducer has fast measuring response, 13788
effects of lower body negative pressure on cardiovascular system, 12629
embankment pore pressures during construction, 10446
Pressure—Continued
environment in base of Saturn S–1C booster from Mach 0.1 to 3.5, wind-tunnel investigation, 16678
flight pressure measurements on launch vehicle, comparison with wind-tunnel measurements, 6445
flight type oxygen partial pressure sensor, 15046
flow and pressure field analysis of parallel groove geometry, 15201
fluctuations and induced structural response in boundary layer, flight and wind tunnel measurements, 17880
fluctuations in turbulent boundary layers, 4915
high—
adapter assembly prevents damage to tubing during tests, 13765
gas systems, Army technical manual, 12662
low temperature electrical connector makes no-leak seal, 7759
O-rings with Mylar back-up provide cryogenic seal, 12319
tube coupling requires no threads or flares, 12325
hypersonic, and heat transfer tests—
delta wings with laminar and turbulent boundary layers, 15047
flat plate with flap and delta wing, etc., 15048
internal, cylindrical shell and closures buckling, 13718
low frequency fluctuations effects on human subjects, 6464
low, partial, of hydrogen and oxygen, potential of platinum electrode, 17977
lower body negative pressure influence on level of hydration during bedrest, 9863
magnetic latches provide positive overpressure control, 12320
measurements, ballute decelerator, 13841
measurements of nonequilibrium effects in air on wedge-flat-plate afterbody pressures, 2358
near-field sonic-boom, calculating, 1258
1000 MWe supercritical, nuclear reactor plant study, progress report, 161
oxygen, change in heart muscle, USSR study, 1027
peak, in thick targets generated by reduced density projectiles, 16615
plasma properties to 100 kilobars, measurement and interpretation, 9420
pressure and forces acting on ring baffle under sloshing conditions, 6336
pressure and heat transfer, tests on surface roughness elements with laminar and turbulent boundary layers, 15049
pressure and temperature measurements of cavity for decoupled nuclear explosion, feasibility, Project Dribble, Salmon event, 3852
pressure-welded flange assembly provides leak-tight seal at reduced bolt loads, 11039
probes, for determination of flow conditions, calibration, 1257
radial, and velocity components, distributions in vortex contained in short cylindrical chamber, experimental profiles, 1254
reduced pressure environment, vibrational characteristics of sandwich panels, 15163
responsive seal handles static and dynamic loads, 2378
ring valve responds to differential pressure changes, 4859
sharp and blunt flat plates at Mach number 6.8, 7847
sonic-boom ground pressure patterns, effects of atmospheric refraction and airplane accelerations, 15152

Pressure—Continued
spectra and space-time correlations of fluctuating pressures at wall beneath supersonic turbulent boundary layer perturbed by steps and shock waves, 10954
stagnation and static, on nose-mounted 15° conical probe, 15155
supersonic investigation of effects of configuration geometry on pressure-coefficient and section normal-force-coefficient distributions for 2-stage launch vehicle, 15139
testing, rubber plug, expandable, seals, openings, 11022
total-pressure recoveries for semicircular open-nose inlet, 7830
see also Atmospheric pressure.
Pressure gages:
baking enables McLeod gauge to measure in ultrahigh vacuum range, 2380
Bourdon tubes, use in maintaining cryogenic liquid level, 9459
modified McLeod gage records automatically, 12329
see also Ionization gages.
Pressure generators, sinusoidal, dynamically tested, 4868
Pressure seal ring may be effective over wide temperature range, 11005
Pressure suits, ability of pressure-suited subjects to perform lunar scientific tasks, 1239
see also Life support systems.
Pressure switches, flexible arms provide constant force for calibration, 13752
Pressure tanks, *see* Tanks.
Pressure transducers, *see* Transducers.
Pressure vessels:
cryoformed, special 301-type stainless steel for improved low-temperature notch toughness, evaluation, 11067
cylindrical, mismatch in circumferential joint, comparison of experimental and theoretical stresses, 16676
cylindrical, through-cracked, fracture mechanics, 6437
elastic stresses at mismatched circumferential joint in pressurized cylinder including thickness changes and meridional load coupling, 16677
fabricated with high-strength wire and electroformed nickel, 11012
lightweight door seals cryogenic container against diaphragm type loading, 4891
power reactor, radiation damage surveillance, 12430
strength comparison of flawed single-layer and multi-layer AISI 301 stainless-steel pressure vessels at cryogenic temperatures, errata, 7812
unfired, marine engineering, regulations, 14316
Pressure waves, generated in water filled tanks impacted by high-velocity projectiles, 4912
Pressurization, *see* Tanks.
Pressurized water reactor, *see* Reactors (atomic).
Prestige, national power and prestige in space, 13851
Prestressed and segmented brittle structures, 10970
Presumpscot River, water resource appraisals for hydroelectric licensing of basin, planning status report, 4387
Preventive medicine, *see* Medicine.
Pribilof Islands:
fur seal sales, investigation, hearing, 7215
fur seals and other wildlife, conserve—
hearings, 10336, 17390
reports, 11764, 15935, 17310
Price, George C., hydraulic coal mining research, development mining in steeply pitching coalbed, Roslyn, Wash., 1159
Price, Harold E.:
potential roles of supersonic transport crews, 15064
and some implications for flight deck, 17872
Price, Howard L., measurement of flexural rigidity of thin films and laminates, 7826
Price, T. R., photodegradation of high polymers in solution, 5074
Price-Anderson act, *see* Indemnity.
Price lists, *see* Government publications—*also* subject.
Prices:
agricultural prices (periodical), 2650
consumer price index, 2793
consumer price index, items, relative importance, 1096
consumer price indexes for selected items and groups, 6270, 12221
contract pricing, Armed services procurement regulation manual, 7252
defense contract data, need for audits to detect lack of disclosure prior to award, GAO report, 6014
demand and price situation, 2847
determination in USSR, 6181
eggs, methods of pricing, 4284
equipment, pricing and development, USSR study, 6187
farm-retail spreads, foods, cost components, 16732
food costs, farm prices, information relating to agriculture, 13012, 15954
index numbers, hydraulic turbine industry, 3058
indexes, department store inventories, 7671, 14981
inflation and price indexes, 11596
law of value and problems of setting prices, USSR study, 4675
machine building, new prices, USSR study, 12181
marginal, for non-standard equipment, USSR study, 907
Pacific Northwest forest industries, 3420
parity, expressing congressional policy, report, 11770
planned price determination, USSR study, 1057
planned price-fixing, USSR studies, 682, 4630
price-fixing and estimates in construction, USSR study, 4652
price fixing for agricultural products, USSR study, 4653
price formation in USSR, 4656, 10783
price support programs, 2638, 6723, 6727
rational, computation on basis of current information, USSR study, 1031
spot market price index and prices, weekly summary, 2628
statistics of Federal Government, 14371
statistics of Federal Government, hearings, 12841
trends, charts and tables, 14980
wage-price guideposts, strengthening—
hearing, 17380
report, 17289
wholesale and consumer, perspective of basic demands and costs (remarks), 11526
wholesale, for new products, USSR study, 4599
wholesale, index numbers, 3051
wholesale price index—
monthly, 3710
prices and price indexes, monthly, 3709
weekly, 3708
wholesale prices and price indexes, 1963 data, 13620
wholesale prices, temporary, and quality of industrial output, USSR study, 6153
see also names of commodities.
Prickett, Russell O., selling in Yugoslavia, 8431
Priester, W., variations of thermospheric structure, 6416

Prieto, Marcial A. Marti, *see* Marti Prieto, Marcial A. (Alfredo).
Primacord, *see* Detonating cord.
Primary grades, *see* Elementary education.
Primates:
comparative, veterinary, and primate cardiovascular research, 5026
early performance decrement following pulsed ionizing radiation, 1622
effects of 138 Mev protons, 1621, 5327
Rhesus, effects of mixed ionizing radiations, exposed under laboratory conditions, 12636
Primavera, bagged and barerooted, survival and growth, 16326
Prime Hook National Wildlife Refuge, general information, 11976
Primers (paint):
white primer permits corrosion-resistant coating of minimum weight, 9497
Primitive areas, *see* Wilderness areas.
Prince, Fred L., market for toys and games in Italy, 7006
Prince Georges County, Md.:
preservation and protection of certain lands, facilitate—
law, 12838
reports, 8627, 13137
Prince William Forest Park, general information, 7947
Prince William Sound:
earthquake of 1964 and aftershocks—
Coast and Geodetic Survey program, 12763
gravity survey and regional geology, 13412
Prineville, Oreg., soil survey report of area, 6614
Printer proofreader, *see* Proofreaders.
Printers:
monotype keyboard operator, slug machine operator, hand compositor, examination announcement, 9988
radio communications, equipment, USSR, study, 7621
Printing:
census of manufactures, 1963, manufacturing plants, location, 11454
commercial, and manifold business forms, census of manufacturers, 1963, industry statistics, 8332
industry report, 3416
occupations, employment outlook, 9262
union wages and hours for industry, 12216
see also Offset printing—Phototypesetting machines—Public printing and binding.
Printing Joint Committee:
committee prints, 1882, 5715
Government paper specification standards, 15998
Government printing and binding regulations, 11695
Prints, commercial, copyrighted, 597, 5839, 17603
Priorities, administration by Commerce Dept., review, hearing, 453
Prisons and prisoners:
Atlantian (periodical), 2697
chance on the outside, manpower development and training program in Lorton Youth Center, 11867
District of Columbia, work release program for prisoners, authorize, report, 17294
Eagle (periodical), 2864
executions, 15263
Island lantern (periodical), 3091
national prisoner statistics series, 5093, 15263
New era (periodical), 3259
prices charged for meals served employees at penal institutions, GAO review, 10627
Prisons and prisoners—Continued
prisoners in State and Federal institutions for adult felons, 5093
rehabilitation of Federal prisoners, facilitate through work release, etc., hearing, 584
Prisons Bureau:
prices charged for meals served employees at penal institutions, GAO review, 10627
report, 5092
Privacy, invasions of privacy by Government agencies, hearings, 1946, 4132, 11817, 14422
Private International Law, Hague Conference on, *see* Hague Conference on Private International Law.
Private Law, International Institute for Unification, *see* International Institute for Unification of Private Law.
Private laws, *see* Law.
Private pension plans, hearings, 14373
Private pilot's handbook of aeronautical knowledge, 11983
Private property, *see* Property.
Prizes, *see* Rewards (prizes, etc.).
PRL, *see* Personnel Research Laboratory.
Probabilities (mathematics):
atomic transition probabilities—
bibliography, 7916
hydrogen through neon, 11092
automata forecasting random process, USSR study, 1051
communication satellites, orderly-spaced, time available, 1187
distributions with reference to mineral industries, theoretical confirmation, 12241
finite probability automata, test for representability of events, USSR study, 990
generation of random sample-covariance matrix, 4951
models, use as basis for making decisions during mineral deposit exploration, 12245
optimal control of saturating systems with stochastic inputs, 12356
probabilistic methodology for safety analysis of nuclear power reactors, 12684
random balance method, increase in effectiveness, USSR study, 9161
random excitation, stationary and nonstationary, maximum response of linear mechanical oscillator, 4807
redwood, 2d-growth, randomly selected sample, strength and related properties, 8969
response of shells to random pressure excitation, 1180
sequential decision rules for multiple choice problem, 9411
temperature measurement by method which does not require transition probabilities, 6333
Probate law and practice, small estates, probate and administration, 2279
Probation:
Federal probation (periodical), 2954
Federal system, persons under supervision, 14098
Probenecid, administration on artificial kidney, parotid fluid uric acid responses, 9874
Probes:
charged probes, Bourdon tubes maintain cryogenic liquid level, 9459
conical pressure, for determination of local flow conditions at Mach nos. 3 to 6, calibration, 1257
electron drift in plasma, 4991
probing air motion by Doppler analysis of radar clear air returns, 11317
rocket engine exhaust components sampled, 2399
semiconductor forms biomedical radiation probe, 12297

Probes—Continued
solar mission, combined high-low thrust propulsion, 2429
solid state thermostat has integral probe and circuitry, 9486
stagnation and static pressures on nose-mounted 15° conical probe with various forebody configurations, 15155
Problems of hematology and blood transfusion (USSR periodical), translation, 10788
Problems of information transmission (USSR periodical): translation, 10751
Problems of psychology (USSR periodical): translations, 6232
Proceedings of National Museum, 1324–26, 2466–69, 5041–44, 6495–98, 7939–40, 9567
title page, etc., v. 117, 16735
Processing (agricultural), *see* Agricultural processing.
Processing and storage of viable human tissues, 16808
Processing of counting data, 14236
Processing of food, *see* Food processing—*also* names of food processed.
Processing personnel actions, 2944
Procurement, *see* Air Force—Armed Forces—Army — Defense Construction Supply Center, Columbus, Ohio—Defense Department—Government contracts—Government supplies—Military supplies—National Aeronautics and Space Administration—Navy—*also* names of commodities procured.
Produce, *see* Agricultural products.
Production:
automation, solution of problems, USSR study, 9162
cost at machine-building and metal-working enterprises, new instructions for calculating, 1014
defense mobilization organization directory, 452
defense production act—
extend—
hearings, 8660, 11793
law, 12820
reports, 8597, 10218, 16079
progress report, hearing, 453
East Germany, cybernetics, analysis aids in planning, 12180
facilities, Navy design manual, changes, 1569
farm, changes, 12614
industrial output, quality, USSR study, 6153
national defense, report, 4164
output, as related to U.S. commodity exports and imports, 6939, 17018
output, indexes per employee, air transportation industry, 14969
output indexes per man-hour—
man-made fibers industry, 7673
private economy, 4735, 17817
selected industries, 4717
Pacific Northwest forest industries, 3420
planning, mathematical formulation of simplified model, USSR study, 2250
primary, in sea, light measurements, USSR study, 14798
processes, automatic operational management, USSR study, 7635
productivity, bibliography, 16536
productivity development, BLS publications, list, 10881
productivity of employees, supervisor development program, 6829
research reports, 3767, 9835, 11366–367, 14150, 15477
Rumania, application of physics, 12107
social, increasing, USSR studies, 881
see also Gross national product—*also* names or classes of commodities.
Production area series, commodity transportation survey, advance reports, 6919, 8339–47, 9952–59
Production control, automated systems, USSR developments, 16399
Production credit associations:
operations, summary, 8870
PCA cooperative-patron credit plan, 16254
Production equipment:
directory D series, 8797
industrial equipment industries in France, 5550
industrial plant handbook—
metalworking machinery, 8797
portable machine tools and toolroom layout plates and tables, 8804
rolling mills, drawing machines, and metal finishing equipment 8803
marginal price for non-standard equipment, USSR study, 907
pricing and development of new equipment, USSR study, 6187
USSR, industrial exhibit, reflect value of esthetics in working conditions, 2252
Production painters, *see* Painters.
Productivity, *see* Production.
Products, *see* Commercial products.
Professional development services, 14290
Professional papers, Geological Survey, 817–821, 2103–4, 4518–25, 6031–36, 7484–88, 9018–20, 10641–645, 11017–27, 13407–413, 14752, 16359–361, 17717–723
Professional Placement Network, public employment service, anywhere U.S.A., recruiting professional personnel, 11887
Professional workers:
health personnel, traineeships under public health program, 5119
mental health personnel employed in States, 11105
preparation of professional personnel in education of handicapped children, manual, 16239
State agricultural experiment stations and other cooperating State institutions, 5286
Professions:
allied health, personnel training act of 1966—
hearings, 10249, 17591
reports, 10225, 15841, 17535
college and university business management guide, 1977
education profession, literature, bibliography, 16231
geography, field, 10423
health education, publications, bibliography, 5108
health, educational assistance amendments of 1965, law, summary, 4534
health, scholarship program, 6581, 11187
invitation to professional organizations to join in research, 6475
professional careers with Census Bureau, 270
professional development, General Accounting Office, 17715
professional training and cooperation amendments of 1966, report, 17269
publications, price list, 11178
Profile of ESEA, 5881
Profile of youth, 17408
Profiling machines, mill profiler machines soft materials accurately, 11044
Profit:
as index of efficiency of operation of enterprise, USSR study, 1034
export, low cost marketing aids, 4575
large corporation, quarterly report, 3489
sawmills, improving through operations research, 4476
Profit sharing:
plans, self-employed individuals, contributions, amend internal revenue code, report, 10174

Profit sharing—Continued
tax exemption, procedures and guides for qualification under internal revenue code, 14779
Profitability of socialist enterprises, USSR, 4676
Program aid series, 58–63, 1596–1602, 3762–64, 5295, 6762–75, 8152–65, 9826–32, 11365, 12611–612, 14147–149, 15457–460, 16935–939
Program evaluation and review technique:
applications in education, 17624
exercise manual, 5854
exercise solution manual, 5855
Program planning and development, self-teaching materials, 15625
Programmed computers, *see* Electronic computers.
Programmed instruction:
closed drainage of chest, programmed course for nurses, 9623
cybernetics and programmed teaching, USSR study, 13554
discussion of problems, USSR study, 6246
interview with Academician A.I. Berg, Chairman, Interdepartmental Scientific Council of Programmed Instruction, USSR, 14791
programmed learning—
and its prospects, USSR study, 6217
theory and practice, USSR study, 6206
programmed teaching in USSR, 14955
radio transmitting set—
AN/WRT–1, maintenance course, 13908
AN/WRT–2, maintenance course, 12418
teaching machines and programmed learning, USSR studies, 13503
theory and practice, USSR studies, 992, 9088
USSR, conference, 16504
Programmers:
career opportunities, IRS, 4567
digital computer specialists, computer programmer, computer systems analyst, examination announcement, 12755
electronic computer employment outlook, 9235
specialist and advisor, examination announcement, 11496, 17049
Programming (computers), *see* Electronic computers.
Programming (mathematics):
nonlinear programming and optimal control, 9441
Programming (planning):
budget system in Federal Government (remarks), 3866, 16986
dynamic, method of analysis in theory, USSR study, 2178
planning and construction of helicopter stations, USSR study, 10809
program analysis techniques, bibliography, 5431
program management officer, developing management concept, 5116
USSR, use of electronic computers, 16488
zero defects guide, quality and reliability assurance handbook, 4261
Progress and prospects, report of 2d national conference of governors' commissions on status of women, 9033
Progress, Missouri River Basin, 3422
Progressing toward new day for older American, 10655
Project Apollo (man-in-space program):
afterbody heat transfer and pressure with and without oblation, 16683
buffet response of boilerplate service module, full-scale and model compared, 4895
command module, wind-tunnel pressure and heat-transfer distribution, effect of protuberances, etc., 16647
configuration management manual, 1176
contamination control handbook, 17871
Project Apollo—Continued
electromagnetic compatability principles and practices, 1177
forecasts and appraisals for management evaluation, 12285–286
infrared acquisition and tracking system, 16649
landing characteristics of spacecraft with deployed-heat-shield impact attenuation systems, 4901
launch abort at high altitude, manually controlled, 11060
manned space flight, suggestions for lesson planning, 6350
nonequilibrium ionization phenomena in plasma sheath, estimates, 15077
pacing systems, 1868
rocket performance of Apollo storable propellants in engines with large area ratio nozzles, 15173
Saturn IB/Apollo upper stage, supersonic/hypersonic aerodynamic investigation, 4819
structural systems and program decisions, 12284, 15087–88
unified S-band telecommunication techniques, 9524
Project Dribble (Salmon event):
Vela Uniform program—
decoupled nuclear explosion, cavity pressure and temperature measurements, feasibility, 3852
ground motion and containment, 5415
ground-water safety, 5416
grouting mixtures employed at nuclear test in salt, laboratory design, analysis and field control, 3853
off-site surveillance, 6868
structural response of structures to underground nuclear detonation, 3850–51
weather and surface radiation prediction activities, 5414
Project Dugout (Plowshare program):
strong motion seismic measurements, 1682
surface motion measurements, 16972
Project EROS, *see* Satellites.
Project Fire (flight reentry program):
angle-of-attack analysis for project Fire 1 payload reentry, 7879
flight II, flight parameters and vehicle performance, 15176
instrumentation of radiative heating and related measurements, 17918
reentry phenomena at hyperbolic velocities, photographic summary and record, 17913
Project fog drops, investigation of warm fog properties and fog modification concepts, 4823
Project Gemini (man-in-space program):
general information, 16711
manned space flight, 9444
suggestions for lesson planning, 6350
midprogram conference, including experiment results, 12282
Project Handcar (Plowshare program):
geology and surface effects, 3849
weather and radiological surveillance, 3848
Project Head Start:
community action program, child development centers—
daily program, 4273
equipment and supplies, 4277
good nutrition, 4272
medical guide for directors, 4271
parent participation, 4275
securing staff, 4270
selection and recruitment of volunteers, 4274
social services, 4276
feeding program, food buying guide and recipes, 7278
how you can help, 7283
invitation to help, 4268

Project Head Start—Continued
newsletter, 8824
nursery-kindergarten enrollment of children under six, 10428
series, 4270–77
Project Icarus, time-varying human operator dynamics, characterization, 13717
Project innovation, seeking new answers to prevention and control of juvenile delinquency, 14083
Project listing, Supply and Maintenance Command, 14221
Project management, management of project materiel, FAA handbook, 8872
Project Mercury (man-in-space program):
manned space flight, 9444
suggestions, for lesson planning, 6350
Project Pre-Schooner (cratering experiment):
cloud development studies, 15538
preshot investigations, 151
strong motion seismic measurements, 1681
subsurface effects measurements, 14237
Project Ranger, 1193
Project Sedan (Plowshare program):
radioactive fallout, interception and retention by desert shrubs in Sedan fallout field, 5397
Project Shoal, post-shot hydrologic safety, 6867
Project Sparta (flight reentry program):
experiment in Australia, agreement with Australia and United Kingdom, 15348
Project Star Dust:
flight data and results of radiochemical analysis of filter samples collected, 8282, 9919
Project Sulky (Plowshare program):
Federal Aviation Agency airspace advisory, 16975
off-site surveillance, 16973
on-site radiological safety, 16974
Project Surveyor (unmanned lunar exploration):
report of Subcommittee, 530
scientific instruments, development, National Aeronautics and Space Administration, GAO review, 10626
Surveyor I, preliminary report, 12283
Project Talent, progress toward goals, 651
Project Tradewinds, elevated tradewind ducts, airborne early warning UHF radar observations, 7974
Projectiles:
effect of size and material on impact fracture of walls of liquid-filled tanks, 16688
fracture of liquid-filled, filament-reinforced plastic or aluminum tanks, 11076
fuze covers, possible savings from improving management control, GAO report, 4501
high-fineness-ratio, impact into thick targets, 7841
high-velocity, pressure waves generated in water filled tanks by impact, 4912
peak pressures in thick targets generated by reduced density, 16615
penetration, bumper and main wall material, effectiveness of single meteoroid bumpers, 1269
Projectors, *see* Shadomaster measuring projectors—Slide projectors.
Promise of precise borehole gravimetry in petroleum exploration and exploitation, 9017
Promotions:
Air Force officers, provide opportunities—law, 15773
reports, 15839, 15860, 16128
FAA merit program, handbook, 10456
Naval Reserve captains and Marine Corps Reserve Colonels, provide authority—law, 397
reports, 548, 1842
Promotions—Continued
women in Armed Forces, remove restrictions, report, 15949
Pronghorn antelope, 10529
Proofreaders, printer-proofreader, examination announcement, 9988
Propaganda:
anti-Islamic atheistic propaganda, USSR studies, 4619
western propaganda and the Ukraine, USSR study, 4629
Propagation:
in troposphere, investigation of properties of field fluctuations of ultrashort radio waves, USSR study, 13450
pulse waves, method of determining velocity, 4998
radio waves—
interplanetary and near solar space, USSR studies, 7575, 13461
zonal harmonics, 13866
short-wave communication with spaceships, peculiarities, USSR study, 7565
see also Air-layering.
Propellants:
ablative materials as nozzle sections of storable-propellant rocket engine, evaluation, 9500
Apollo storable rocket performance in engines with large area ratio nozzles, 15173
cryogenic liquid, insulation from heat leak by propellant and its sacrificial boiloff, 9508
cryogenics, tank pressurant requirements, studies, 6419
fiber glass cryogenic tanks, use of glass flakes as liner, 4893
high energy, bibliography, 9450
hydrogen, acceleration along magnetic tube by ion beams, 16702
hydrogen-fluorine system, comparison of experimental and kinetically limited theoretical performance, 15195
hydrogen-oxygen rocket engine, 20,000-pound, propellant injection velocity, effect on screech, 7884
ion-thrustor propellant feed, high voltage isolation device, 13838
liquid—
compatibility of plastics, 8817
hydrogen in propellant tank—
simulated nuclear heating, 6467
wall and bottom heating, 6439
rocket engines, bipropellant, with different vaporization rates, analysis of chugging, errata, 12333
surface oscillations, 13719
low-thrust trajectory requirements, 7895
medium-temperature solid, vortex valve study, 7742
minimum consumption for vehicles, round-trip trajectories to Mars, 4967
rocket, distributed parameter analysis of pressure and flow disturbances in feed systems, 13833
rocket motors, solid propellant combustion instability, use of one-dimensional model for determining, 9533
seeded propellant layer on thermal radiation in nozzle of gaseous-core nuclear propulsion system, effect, analysis, 2415
slosh design handbook, 9395
solid—
engineering design handbook, 8229
rocket nozzle materials performance, 9541
tanks pressurization requirements, prediction by dimensional analysis, 12344
tanks, simulator for static liquid configuration, 9509
see also Fuel.
Propellers:
aircraft—
current industrial report, 6920

239-221—67—No. 863——32

Propellers—Continued
aircraft—continued
four-duct-propeller VTOL model, aerodynamic characteristics, 9507
type certificate data sheets and specifications, 2667
full-scale ducted, performance, predicted and measured, 16599
screw propellers—
approximate determination of pitch, USSR study, 2213
determining moment that cavitation sets in, USSR study, 2214
effect of cavitation on magnitude of intermittent forces transferred to ship's hull, USSR study, 2216
hydrodynamic pressures caused, induced vibrations of ship's plates under effect, USSR study, 2217
lateral components of forces of suction, effect on handiness of vessel, USSR study, 1005
performance curves, plotting by digital computers, USSR study, 1049
periodic forces and moments, determination, USSR study, 1048
problem of quality control of geometrical elements in production, USSR study, 2212
production methods of measuring pitch, USSR study, 2150
selecting placement in multi-shaft ships, USSR study, 2215
shrouded, in operation, periodic forces acting on hull of ship, USSR study, 1012
twin-propeller deflected-slipstream STOL airplane configuration, powered model, longitudinal stability and control, 13808

Property:
acquired, accounting manual, 4370
bakery and dairy products companies, 1959–64, ownership changes made, 14539
common carrier, tax assessments, hearings, 7153
located in Federal areas, permit States to tax, hearings, 14485
minimum standards for urban renewal rehabilitation, 16272
primary assessing areas for local property taxation, 6938
private, USSR theory and practice, 9150
see also Personal property—Public property—Real estate—Surplus property.

Property accounting, *see* Accounts and accounting.

Property rights:
family and property law, women—
Iowa, summary, 11323
Ohio, summary, 11324

Prophylaxis:
allergy and use of biologically active agents, USSR study, 7627
behavior with respect to rheumatic fever, factors influencing, 2527
dental, performance of stannous fluoride-zirconium silicate, 8208
standards of service to population, utilizing data of complex medical examinations, USSR study, 7550
with nemikon-4 for acute lethal poisoning of dogs with soman, electrocardiographic observations, Bulgarian study, 13504

Prophylaxis pastes, *see* Dentrifices.

Propositional calculus, *see* Calculus.

Proprietary stores, *see* Stores.

Propulsion:
Air Force units, logistics management, manual, 6791
electric—
for manned Mars landing missions, 4940
for unmanned scientific missions, navigator study, 15066
for deep space, 17886

Propulsion—Continued
high-thrust, rockets used for manned Mars landing mission, 4929
micropropulsion subliming-solid system, impulse and thrust test, 6432
nuclear—
marine, conference, proceedings, 1676
naval program, hearing, 8483
rocket, gaseous-fueled cavity reactors, criticality calculations, etc., 13707
system, gaseous-core, effect of seeded propellant layer on thermal radiation in nozzle of, 2415
vaporization of liquid uranium bearing systems at very high temperatures, 2368
personnel, devices for use in vicinity of moon, 4822
space, electromagnetic accelerators, 7853
systems, airframe-engine integration of supersonic aircraft, 13805
thrust, combined high-low, for close solar probe mission, 2429

Prospect Park, of Brooklyn, N.Y., centennial year greetings, reports, 8565, 11758

Prospecting:
contributions to geochemical prospecting for minerals (series), 13396
resistivity data, interpretation, 10644

Prostheses, prosthetics research, bulletins, 9757, 18132

Proteases, *see* Enzymes.

Protective clothing, *see* Clothing.

Protective coatings, *see* Coating materials.

Protective shelters:
committees for community shelter planning, 17027
fallout shelters—
architectural, engineering and consulting firms with certified analysts, directory, supp., 6958
buildings with shelter areas, 12747
creation through slanting and cost reduction techniques, 1747
for homes with basements, handbook, 5510, 15623
national community design competition awards, 5514
national survey, reading phase 2 printout, self-teaching materials, 17031
professional development services in planning, etc., new buildings, 14290
protection factor estimator, instructions in use, 5513, 12746
qualified analysts, national directory, 14289
rural shelter, analysis workshop, manuals, 8384, 8386
schools built with fallout shelter, 5515
technical report, 17032
personal and family preparedness for survival, 12745

Proteins:
content of parotid fluid collected without exogenous stimulation, 11379
detection in trace amounts, 9435
edible soybean products, publications and patents, list, 9784
fish concentrate, experiment and demonstration plants—
hearings, 16180, 17390
reports, 15941, 16080, 17325
host, under effect of antibiotics, changes in immunological specificity, USSR study, 7620
hydrazine effect on protein content of tissues in rat, 8202
industrial uses, publications and patents, list, 9786
parotid fluid, in patients with uremia and proteinuria, 9875
parotid fluid protein-free filtrates, preparation, 8217
preservation and protein enrichment of foodstuffs, USSR study, 909

Proteins—Continued
proteins in medicine and national economy, USSR study, 905
ribonucleoprotein and ribosomal particles, reconstruction of biologically active ribosomes, 10774
surface chemistry, 16755
see also Nucleoproteins.
Proteinuria patients, parotid fluid, total protein, 9875
Protestant Men of the Chapel, guidelines, 612
Protestant Women of the Chapel, guidelines, 613
Protons:
bombardment, radiation damage in silicon solar cells, 6547
bombardments with 22 and 128 MeV protons, damage to transistors, 17915
effects on primates of 400 Mev, radiations of space, 5327
high energy, physical and biological studies, 2439
inner zone radiation belt, trapped radiation model environment, 4835
inner zone, solar cycle effects, 6413
kinetics of recuperation following 55 Mev proton irradiation, 5335
low energy, effects on silicon, 6347
138-Mev, biologic effectiveness as compared to Co^{60} gamma radiation, 94
138-Mev, effects on primates, 1621
solar cell damage rates, 9540
200- and 300-keV, energy and angular distributions of electrons ejected from bombarded helium, 16695
Protozoa:
Ichthyophthirius multifiliis of fish, 11968
Index-catalogue, 6715
Protractors, aerial photo scale-protractors, 4445
Provenzano, T. G., intense 14-Mev neutron source for Operation Henre, 11421
Providence, R.I.:
area wage survey, metropolitan area, 12214
commodity transportation survey, production area series, 8339
principal electric facilities, map, 7374
Provisioning screening procedures, DSA–DLSC manual, 16211
Provisioning techniques, 133
Provisions for talented students, 5883
Prunes, production, use, value, by States, 15379
Pruning, sitka spruce, test, 13357
Pryor, Ray, heart disease in children, training program in cardiology, 6582
Pseudomeritastis, *see* Microlepidoptera.
Psittacosis, mixed infection with aerosol of viruses of ornithosis and influenza, USSR study, 12182
Psoroptic scabies, *see* Scabies.
Psychiatric clinics, *see* Clinics.
Psychiatric institutions, *see* Mental institutions.
Psychiatric nurses, *see* Nurses and nursing.
Psychiatric patients, *see* Mentally ill.
Psychiatrists:
occupational and personal characteristics, 12476
USSR, news, 10703
Psychiatry:
career opportunity in nursing, Public Health Service, 9558
forensic, USSR study, 7587
neuropathology and psychiatry, USSR study, 9079
nursing, institutions offering trainee stipends for graduate and undergraduate education, 11113
psychiatric guardianship problems, USSR study, 2167
psychiatric hospitals, questions and answers, 8026
Psychiatry—Continued
psychiatric selection of candidates for space missions, 8203
research in Veterans' Administration, 5213
Psychological tests, *see* Personality tests.
Psychological warfare, Soviet denounce use of misinformation as weapon, 13486
Psychologists:
clinical, examination announcement, 9992
employed in mental health establishments, selected characteristics, 1308
employment outlook, 9266
Psychology:
alcoholism, psychological aspects, 15428
biopotential signals as function of learning task difficulty, 5068, 6537
contradictory urges besetting normal young people during psychological changes in adolescence, 274
engineering psychology in instrument building, problems, 1st Leningrad conference, 6116
evaluation of psychological measures, children ages 6–11, health examination survey, 8004
higher mental functions, Soviet theory of development, 16479
man's reactions and impressions of outer space, USSR study, 6242
military—
methods for improving enlisted input, current research activities, 15524
officer candidates and cadets selections, research, 15525
occupational, USSR studies, 2267
problems, USSR studies, 1072
psychological aspects of disability and rehabilitation, 9759
psychological aspects of international relations, hearing, 13210
student training and development, psychological aspects, USSR, 17755
USSR, goals and achievements, 14919
voprosy psikhologii, translations, 6232
see also Information theory in psychology—Movement (psychology)—Parapsychology.
Psychology, Inter-American Congress of, *see* Inter-American Congress of Psychology.
Psychometrics, multidimensional scaling, technical considerations, 3841
Psychomoter abilities, *see* Ability.
Psychopharmacology:
abstracts, 3425
animal research—
bibliography, 1431
handbook, 18069
handbooks, 1431, 18069
Psychopharmacology Service Center, bulletin, 1311
Psychosensory disorders, resulting from temporary weightlessness, USSR study, 17760
Psychosomatic medicine, heart diseases and the psyche, review of research grants, 12472
PTFE, *see* Polytetrafluorethylene.
Ptolemaeus, RLC 13, lunar chart, 14187
Public accountants, *see* Accountants.
Public accounting, *see* Accounts and accounting.
Public administration, business and public administration notes, 2717
Public assistance:
administrative costs per casemonth, 10449
aid to families with dependent children, State plans, characteristics under social security act, 8869
cases, reasons for opening and closing, 5906, 17642
concurrent receipt of public assistance, tabular release, 17643
costs of State and local administration, services, and training, 5903, 14586

Public assistance—Continued
District of Columbia act, amend, report, 544
families receiving aid to families with dependent children, State cost standards, revised table, 7343
forestry cooperatives, 12612
medical care provided through vendor payments, tables, 7346
medical care, vendor payments by type of service 5904, 17640
tables, 14587
personnel, 7344–45
program development for social services, 1997
programs, progress report on staff development, 14585
public assistance reports, 5905, 8869, 11905, 14583–584
quality control, guides and instructions for QC reviewers, 1998
recipients, income and resources, simplified methods for consideration, 4348
recipients, training under MDTA, 10842
services to elderly on public assistance—
hearings, 567
appendix, 7202
report, 7203
services under AFDC for children who need protection, caseworkers' manual, 1999
source of funds expended for payments, cost of administration, services, and training, 5907
State-Federal programs, improvement, social security amendments of 1965—
law, print additional copies, report, 13005
Senate amendments, brief description, 1937
summary, 7209
State plans, characteristics under social security act, 8869, 11905
State salary ranges of positions in public welfare, 836, 10657
statistics, monthly advance release, 2642
to help needy people, 10450
under social security act, serving people in need, 10451
unemployed-parent segment of aid to families of dependent children, 3633
welfare in review (periodical), 3704
statistical supplement, 6695
welfare, legislative achievements, 4538
welfare research report, 11321, 14085, 15428
welfare services for older people, planning, papers, 11904
Public buildings, Federal buildings, disaster control and civil defense, guide for facility self-protection, 5094
Public contracts, *see* Government contracts.
Public debt:
components of national debt, clarify, etc., report, 17316
debt management in prosperous economy (remarks), 9745
fiscal policy and debt management, 2027
increase in ceiling—
hearings, 11693, 11801
law, 11581
Public law 89–49, legislative history, 532
reports, 10223, 11619, 11769
Treasury Department circulars, 1512, 5192, 6675, 8102, 14051, 16880–881
Public Documents Division:
classified list of Government publications, 15264
price lists, 1404–9, 2519, 5096–5101, 6568–69, 7986–87, 9621, 11178–179, 12457–458, 13950–953, 15265–266, 16785–789, 17992–996
Public domain, educational research publications, statement of policy, Office of Education, 652
see also Public lands.
Public education, *see* Education.
Public employment, *see* Employment.
Public funds:
deposit regulations, Treasury Dept., circulars, 9746, 11295, 15393
Federal money for education, programs administered by Office of Education, chart, 4302
special deposits of public moneys, Treasury Department circulars, 8100, 14047
Public health, *see* Health.
Public Health Department of District of Columbia, hospital and surgical-medical insurance benefits available under Blue Cross-Blue Shield plans, GAO report, 4498
Public Health Service:
act, amend—
hearings, 5698, 7230, 10249, 17386, 17591
reports, 7084, 10225, 15841, 16161, 17308, 17535
act, text, 13049
activities report, 15268
appropriations, 1967—
hearings, 8650, 8763
law, 10086
reports, 8592, 10160, 10281
Basic and Applied Sciences Branch, activities report, 1410
cancer programs, 4531
career opportunity of psychiatric-mental health nursing, 9558
certification of interstate milk shippers under State-PHS cooperative program, 5113
charges for Government-owned quarters at Mount Edgecumbe, Alaska, GAO review, 14735
civil defense medical stock, achieving greater utilization, GAO report, 6001
conference with State and territorial mental health authorities, proceedings, 5114
cooperative studies, renal disease and hypertension, conferences, proceedings, 15296
Division of Hospitals, management data, statistical summary, 1417, 18002
Division of Nursing, research grants and awards, 12464
fellowships, postdoctoral research program, 12474
film catalog, 15299
forecasting air pollution potential, advisory service, 11182
general information (remarks), 1432
grants and awards, guide, 12468
grants and awards, 1964 funds, mental health research, 11106
grants and awards, 1965 funds—
construction of facilities, 6491
health services, formula and project, 6492
mental health research, 15288
mental health training, 2458
research, 5033
summary tables and graphic highlights, 9560
training grants, traineeships, fellowships, etc., 6490
grants for health services made to Indiana, financial administration, GAO review, 16347
grants for health services made to Illinois, administration, GAO report, 13380
handbook, mechanical addressing, lists, 1428
health information leaflets and pamphlets, lists, 11191, 15286
hospitals—
closing, proposal, report, 478
diagnostic and demographic data of patients discharged, 1416
medical internships, 18060
pharmacy residencies, 16807
seamen's hospitalization, report, 1935
Indian health program, 11190

Public Health Service—Continued
Kidney Disease Branch, general information, 2534
medical care for seamen, 5111
medical record library science training, 7998
medical records, fees for abstracts furnished to private parties, GAO report, 14727
medical rehabilitation, new program, 15287
milk certification program, 13964
nurse training act of 1964, project grants, list, 18059
occupational health publications, 6570–71
public advisory groups—
authority, structure, functions, 12480
roster of members, 11197
publications, 9028
regions, interstate carrier water supplies, inventory, 15285
regulations on biological products, etc., 1414
reorganization—
hearings, 11659, 16188
message from the President, 8506
research grants of NIH, 1965, index, 13991
research profiles, 16809, 18072–74
residencies for physicians, general information, 9629
Surgeon General's Workshop on Prevention of Disability from Arthritis, report, 13989
traineeship awards to individuals, 5102
traineeship program—
professional health personnel, 5119
professional nurse short-term training courses, 8001, 12485, 18077
registered nurses, 1436
training grant programs, 13997
uniformed services, joint travel regulations 1962
water supply and pollution control program, report, 1410
X-ray exposure study, 18067
Public housing, *see* Housing.
Public Housing Administration:
financial statements, GAO examination, 6009
inclusion of balconies and use of high-cost brick in constructing low-rent public housing, GAO report, 6010
local authorities participating in low-rent programs, 3161
low-rent housing bulletin, 6590
press releases, 3400
Public information:
background information on Foreign Relations Committee, Senate, 5806
Bureau of Public Roads views (remarks), 8006
clarify and protect right of the public—
law, 11585
reports, 550, 10124, 11763
Navy Department guidelines for commanders, etc. (periodical), 2858
public information materials, State Dept., list, 12523
scientific, activities of Federal agencies, 5050, 11137, 13890
see also Public relations.
Public Land Law Review Commission:
appropriations, 1967—
hearings, 7113, 8763
law, 10086
report, 8592, 10281
objective, functions and operations, 13048
Public lands:
code of Federal regulations, 10498
common varieties act—
amendments—
hearings, 13215
report, 16138
interpretation and administration, hearings, 1941
geothermal steam deposits, disposition—
hearings, 13047
Public lands—Continued
geothermal steam deposits, disposition—continued
report, 15933
granted to States, amend revised statutes—
law, 11579
report, 11746
Interior Department decisions, 3071
leasing to States and their political subdivisions, amend act—
law, 11566
report, 11740
map of United States showing public land surveys and remaining public land, 13651
National Advisory Board Council, public land management proceedings, 26th annual meeting, 10887
non-Federal management of recreational facilities, 9619
notify Congress of actions, report, 1825
our public lands (periodical), 3302
public domain, historical sketch, 10888
statistics, 13050
see also Grazing—*also* names of States, etc., where lands are located.
Public law 480, *see* Agricultural trade development and assistance act of 1954.
Public laws, *see* Law.
Public management, *see* Administrative management.
Public moneys, *see* Public funds.
Public papers of Presidents of United States, 5952
announcement and order form, 1402
Public policy:
and pesticides, interagency coordination in environmental hazards, report, 13156
science, government, and public policy, panel—
papers, 8682
proceedings, 5709
Public Printer, *see* Government Printing Office.
Public printing and binding, regulations, 11695
Public property:
code of Federal regulations, 7414
exchange sale property, permit further Federal use and donation, report, 13142
Federal property and administrative services act, amend—
hearing, 14482
laws, 408, 443–444
reports, 487, 549, 563, 13142
management, code of Federal regulations, 5949, 7403–4, 8915–16, 10497, 11935
transferred to other Government departments by RFC, payment in lieu of taxes, extend, report, 17239
USSR theory and practice, 9150
see also Surplus property.
Public relations:
workers, employment outlook, 9207
you and the public, Federal employee facts, 17040
Public roads, *see* Roads and highways.
Public Roads Bureau:
accounting and financial reporting system, need for improvement, GAO report, 12000
annual report, 5131
Capital Beltway, Interstate route 495, stage construction results in problems, etc., GAO report, 2086
engineering opportunities for college students, bridge to your success in highway engineering training program, 5129
Federal-aid highway program—
need for specific guidelines regarding Federal participation in costs of standard-type plans, GAO report, 7470
right-of-way acquisition activities in Utah, GAO report, 13384

Public Roads Bureau—Continued
labor compliance manual, direct Federal and Federal-aid construction, amdt., 15315
press releases, 3401
program (series), 5125–27
transfer—
hearings, 8774, 10246, 10346, 11809, 13040, 13212
message from the President, 5617
reports, 11634, 12973, 16158, 17291
views public information (remarks), 8006
Public schools, *see* Schools.
Public Service Commission of District of Columbia, report, 4262
Public utilities:
holding companies, security transactions and holdings, 3291
public utility holding company act of 1935, 18090
Public welfare:
administration, restructuring to meet needs of urban society, conference, report, 18144
code of Federal regulations, 11942
constructive program, 1539
demonstration projects focus on education for AFDC youth, 16253
family services, utilization of—
auxiliary staff, 11906
social work staff with differing levels of education, 11907
group services, working with groups, guide for administration, 14588
having the power, we have the duty, report, 12565
recommendations, summary, 18143
programs, progress report on staff development, HEW, 14585
see also Social work and problems.
Public works:
acceleration program, local employment created, GAO report, 6011
allocating resources in eligible areas for utility of employment and income (paper), 10032
appropriations, 1966, law, 401
appropriations, 1967—
hearings, 10229, 14408, 16173
reports, 15914, 16165, 17275
authorizatoins, 1965, rivers and harbors, flood control, etc.—
law, 400
report, print additional copies, report 10197
authorizations, 1966, rivers and harbors, flood control, etc.—
hearings, 17597
reports, 172736, 17533
print additional copies, report, 17470
code of Federal regulations, 7414
complexity of organization and administration (address), 10010
EDA grants and loans for public works and development facilities, 1968
Engineers Corps—
civil works activities, report—
departmental edition, 11889, 14570
document edition, 11599, 14379
civil works program, report by Civil Works Study Board, 11830
grants and loans for public works and development facilities, 4266
public works and economic development act—
amend to broaden coverage, hearings, 14438
areas eligible for financial assistance, 8819
facts, 16217
hearings, print additional copies, reports, 10198, 17471
maximum grant rates in qualified areas, 1969
qualified areas by States, 616
Public works—Continued
public works and economic development—act—continued
report, print additional copies, report, 10202
Public Works Committee, House:
calendar, 3124
committee prints, 529, 8679, 10265, 11681, 14441, 15987
hearings, 525–528, 1865, 5706, 8678, 10262–264, 11682, 13056–58, 14437–440, 15988, 17392
investigations and studies, expenses, report, 4107
reports, 5677, 8545, 10154, 10176, 12946, 12949, 14390, 15837, 15909, 15934, 15948, 17276
travel authorization, reports, 15904–905, 17299
Public Works Committee, Senate:
additional staff and funds, authorization, reports, 4200, 5751
calendar, 3142
committee prints, 7235–36, 10367, 11828–829
hearings, 8789, 10368–371, 11831–832, 13228–230, 14503, 17597–598
reports, 546, 553–554, 1910–22, 5751, 10287, 11782, 11830, 13126, 13150, 13160–161, 13169, 13185, 16078, 16126–127, 16148–149, 17533
Publications:
applied cybernetics, forthcoming works, USSR study, 9181
Federal item identification guides for supply cataloging, supplements, 2939
see also Government publications—Military publications—*also* names of departments, etc., issuing publications—*also* subjects.
Publications Distribution Service of House of Representatives, *see* House of Representatives.
Publicity, medical self-help promotional materials, list, 2532
Publishing:
census of manufactures, industry report, 3892
census of manufactures, 1963, manufacturing plants, location, 11454
industry report, 3416
Puckett, H. B., pneumatic conveyor for distributing farm feed, 15477
Pueblos, *see* Acoma Pueblo—Sandia Pueblo—Santa Ana Pueblo—Zia Pueblo.
Puerto Rico:
aeroradioactivity survey and geology, 11419
agricultural economics, 4285
agriculture departments, directory, 1965, 590
boiling nuclear superheater (BONUS) power station, Punta Higuera site, 5383, 8278, 15537
census of business, 1963, retail trade, wholesale trade, and services, 11451
climatological data, 2751
coast pilot, supplement, 6985
convey real property to, report, 17495
District Court, tenure for judges—
law, 17101
report, 17479
fair labor standards act amendments of 1966, impact, hearings, 5818
Florida quadrangle, geology, 13399
mineral industry, minerals yearbook chapter, 17845
minimum wage rates—
retailing, wholesaling, and warehousing, 5217, 5225
rubber products industry, 5219
nautical chart catalog, 6988
Noreste Soil Conservation District, pangolagrass pasture and coconut palms (colored poster), 9698
petroleum refineries, 12237

Puerto Rico—Continued
political status, settlement, hearings, print as Senate documents, reports, 11735, 12998
principal electric facilities, map, 7381
Puerto Rico and outlying areas—
county business patterns, 3918
population estimates, 8362
storm warning facilities chart, 12562
U.S. trade, monthly report, 3004
women workers, 18146
Puget Sound, area, major industrial plant sites, 5430
Pukhan t'ongch'i Kiguron, 13551
Pullets, *see* Chickens.
Pullman Company, 1964 transport statistics, 874, 10699
Pulmonary circulation, function of external respiration during circulatory insufficiency, USSR study, 985
Pulmonary diseases, research conference, transactions, 14065
Pulmonata, *see* Snails.
Pulp:
current industrial reports, 262, 2817
industry, employment outlook, 9308
industry report, 3433
see also Wood pulp.
Pulp mills, census of manufactures, industry report, 3891
Pulp wood, *see* Wood pulp.
Pulpboard:
corrugated fiberboard—
comparison of 2 specimen shapes for short column test, 4440
edgewise compressive strength, determined by local instability, 5092
effect of loading rate on edgewise compressive strength, 10565
current industrial reports, 262, 2817
mat-formed wood particleboard, standard of trade, 17936
Pulpwood, *see* Wood pulp.
Pulse acceleration, *see* Acceleration.
Pulse code modulation, *see* Radio pulse code modulation.
Pulse generators, *see* Clock-pulse generators.
Pulse-height analyzers, single channel, operates in subnanosecond range, 15107
Pulse waves, method of determining propagation velocity, 4998
Pulses:
display in electrochemical transient measurements, use of logarithmic sweep, 12434
electric-pulse machining of metals and alloys, USSR study, 16477
high intensity, of neutrons, symposium on sources, proceedings, 5385
low power nanosecond pulse and logic circuits using tunnel diodes, 15168
measurement, programed notebook for nursing assistants, 13995
multiple-connected-pulse systems, USSR studies, 4615
optimum pulse filters and signal accumulators, USSR study, 16501
produced in rock samples by piezoelectric pulsing equipment for sonic velocity measurements, 13694
timing, use of parallel line raster to eliminate ambiguities, 15116
Pulses (seeds):
dried, foreign agriculture circulars, 2987
Pumice, basaltic, acid fumarolic gas from Kilauea Iki, Hawaii, chemical effect, 4523
Pumping, mercury ion beams by liquid-nitrogen-cooled condensers, 4965
see also Cryopumping.
Pumps:
axial-flow rotor, design and performance, errata, 4896
DC 704 diffusion-pump oil fragmentation, mass spectrometric analysis, 1248
desalination pumping units, final evaluation report, 16377
Pumps—Continued
electromagnetic alkali metal, for spacecraft power systems, research program, 6332
farm, current industrial reports, 2817
Federal item identification guides for supply cataloging, supplements, 2935
high pressure pumping station, closed loop operation eliminates need for auxiliary gas, 16631
industrial plant equipment handbook, 11843
rotating magnetic, modification for mercury pumping, 17901
titanium sublimation, produces ultrahigh vacuum, 15118
vacuum, industrial plant equipment handbook, 10386
see also Heat pumps.
Punch tools, die and telescoping punch form convolutions in thin diaphragm, 4886
Punnett, Eileen L., relief, 8705
Punta Higuera, boiling nuclear superheater (BONUS) power station, 5383, 8278, 15537
Pupils (students), *see* Students.
Purchasing:
Agricultural Stabilization and Conservation Service, reports, 3434
consumer buying indicators, series, 268, 5496, 11474, 14278
do lettuce buyers exert oligopsony power?, 4281
drug purchases, problems and policies, study, 11321
economic order quantity, principle and applications, 14740
food, how to use USDA grades in buying, 16936
institutional meat purchase specifications approved by USDA, fresh pork, 7242
power of consumer dollar in United States cities, 4739
savings through increased purchasing from GSA supply sources by AEC contractors, GAO report, 16346
servicemen's problems, hearing, 17367
surplus personal property, how to buy from Defense Dept., 5852
Purchasing agents, employment outlook, 9267
Puri, Yesh P., anatomical and agronomic studies of phormium in western Oregon, 14150
Purification of boron, *see* Boron.
Purification of water, *see* Water purification.
Pursuit of happiness, 14966
Putzel, Henry, Jr.:
official reports of Supreme Court, United States, preliminary print, 3290
United States reports, cases adjudged in Supreme Court, 8095
Puzak, P. P., metallurgical characteristics of high strength structural materials, 5076
PWOC, *see* Protestant Women of the Chapel.
Pyramid Lake Indian Reservation:
leasing of Indian land for 99-year term, authorize—
law, 10059
report, 8599
Pyrazoline, dithiocarbaminates, extraction of metal compounds, 9546
Pyrethrum, synergized, wheat protectant against insect damage in small bins, errata, 6754
Pyrolysis:
products from subbituminous coal, influence of carbonization method, etc., on amounts, 16583
products of irradiated cigarettes, 5395
Pyrometers:
optical and ratio, surface temperature measurement, practical aspects, 15193
ultraviolet photographic, used in rocket exhaust analysis, 6408
Pyrophyllite, minerals yearbook chapter, 17868

Pyrotechnics:
military series, engineering design handbook, 8230
output energy of devices, measuring system, 7805
use eliminated by use of electrically heated diaphragm, 2403
Pyrroles:
shale-oil components, methylpyrroles, butylpyrroles, and isopropylpyrroles, thermal reactions, 6314
synthesis of (BB-dicyanovinyl) pyrroles and dipyrrylomethanes, USSR study, 957

Q

QA–IND series, 15417
Qatar:
background notes, 1485
mineral industry, minerals yearbook chapter, 4775, 17846
Quacks and quackery:
health education vs medical quackery, 2053
senior citizens and medical quackery, 8046
Quaintance, Jean A., relief, 12874, 17432
Quality control:
and reliability, handbooks, 4261, 7269, 16213
clothing and textiles, quality assurance information handbook, 16207
DSA civilian career program, 16210
public assistance, guides and instructions for QC reviewers, 1998
quality, international pride and national cooperation (address), 10033
see also subjects.
Quantal interpretation of sensory channel uncertainty and reaction time and psychological time quantum and discrimination of succession, 9427
Quantitative Separations Section, report, 5012
Quantum electronics, physical problems, 6151
Quantum generators, *see* Lasers.
Quarantine, plant, prevent hitchhiking bugs, 9832
see also subjects.
Quarries and quarrying, blasting, effect of charge weight on vibration levels, 12243
Quarterly:
NOTE:—For all publications which begin with the word "Quarterly," *see* subject, name of department, etc., issuing publication.
Quarters:
Coast Guard members, savings through use of FHA owned houses in St. Petersburg and Miami, Fla., areas, GAO report, 2085
Government, savings by providing in lieu of payment of quarters allowances to U.S. military personnel in Taiwan, Department of Defense, GAO report, 6019
Military Academy, provide without charge to civilian instructors, report, 12966
see also Barracks and quarters.
Quartz:
crystals—
disposal from national or supplemental stockpile, or both, law, 412
overgrowths showing direction of movement of jasperoidizing solution, 9013
jasperoids of Lake Valley Mining District, N. Mex., 4513
Quaternary ammonium compounds, thermodynamics of aqueous solutions of salts, 853
Quattlebaum, Charles A.:
enactments by 89th Congress, 1st session, concerning education and training, 7227
legislation concerning education and training, Apr. 24, 1961–Nov. 8, 1965, 7133
Quattlebaum, Marguerite V., subject headings used in dictionary catalogs of Library of Congress, 17825
Queens County, N.Y., southeastern, salt water encroachment, 10648
Quest for equality, story of how 6 institutions opened their doors to serve Negro children and their families, 14282
Questions and answers about uterine cancer, 12482
Questions and answers on Federal outdoor recreation fees, 9602
Questions and answers on guaranteed and direct loans for veterans, 18137
Questions and answers, QA–IND series, 15417
Quiet warriors supporting social revolution in Vietnam, 10691, 11253
Quigley, Stephen P.:
interpreting for deaf people, 14069
preparation of teachers of deaf, 13279
Quileute Indians, judgment funds, disposition, reports, 12933, 17504
Quinidine, prices, hearings, 17587
Quinine, and Quinidine, prices, hearings, 17587
Quinlan, James K., evaluation in Illinois of 4 inert dusts on stored shelled corn for protection against insects, progress report, 14108
Quinn, Robert E., nomination, hearing, 10323
Quinnam, Barbara, fables from incunabula to modern picture books, 7683

R

R.E.A., *see* Railway Express Agency—Rural Electrification Administration.
R. N. Bert Dosh Lock, name, law, 15754
Raabe, R. G., mineral industry of North Dakota, 1138
Raaen, Helen P., indexes to Oak Ridge National Laboratory master analytical manual, 9925
Rabbits:
calorigenic response to epinephrine, etc., 9858
cobalt-60 irradiated, isolated ileum, sodium transport, 3792
cold- and warm-adapted, precooling of peripheral arterial blood, 3782
commercial raising, 12594
eclipse burns, threshold measurements, 12634
precipitin production from human serum, variation in response to primary injections, 9870
precipitin response to human serum, comparison of stresses, 8218
processing plants, chemical compounds authorized for use under USDA inspection programs, lists, 10376, 16201
Race car drivers, physiologic observations, 15068
Race problems:
desegregation guidelines (address), 7317
desegregation of health and welfare services in the South, survey, 5516
economics of integration (address), 8413
education and employment solution to equal rights quandary (address), 16512
equal employment opportunity under civil rights act of 1964, facts about title 7, 17639
equality of educational opportunity, 13271
report of survey, 14551
correlation tables, 14552
Federal rights under school desegregation law, 11494
how to turn talk into action, guide for effective commission on human relations, 10049
integration and academic quality (address), 7314–15
integration in public schools, social and economic implications, 1081

Race problems—Continued
integration programs for schools in Volusia County, Fla., 13273
prohibit discrimination in housing, education, etc.—
hearings, 11671, 14493
report, 12929
quest for equality, story of how 6 institutions opened their doors to serve Negro children, 14282
racial discrimination, eliminate, message from the President, 8509
racial equality in housing, etc., legal and moral basis (remarks), 16886
school desegregation—
in Southern and border States, survey, 1965–66, report, 6960
plans, revised statement of policies, 5882
summary, 5875
policies and guidelines, select committee to study, hearings, 17393
White House Conference, To Fulfill These Rights, report, 15429
white-nonwhite differentials in health, education, and welfare, 837
see also Discrimination in employment.
Racial variation in slash pine as affected by climatic factors, 16339
Racine, Wis., commodity transportation survey, production area series, 9957
Racks:
cattle feeding rack for hay and silage, 11362
rack mount device quickly inserts or extracts chassis units, 4878
Radar:
air traffic control beacon, Servo-altimeter displays, evaluation, final report, 7975
air traffic control task, development and evaluation, 9937
cross section from Trailblazer IIa9° half-angle blunt nose cone during hypersonic reentry, 4956
echo patterns, statistical properties, 12563
Echo II returns, ionospheric parameters derived during solar minimum conditions, 12442
IFF active readout control and display system, 1370
landmass simulation, computer techniques, 9593
observations, evaluating success of artificial modification of convective clouds, results, USSR study, 10784
publications, price list, 16788
radar set AN/PPS–4, organizational mechanic/repairman course, 5363
UHF, airborne early warning (AEW), observations of elevated tradewind ducts, 7974
weather, papers, 1536
see also Doppler radar.
Radar display systems, *see* Display systems.
Radar simulators, Nike Hercules system, radar-signal simulator, Army field manual, 5346
Radar tracking:
interplanetary midcourse guidance, onboard observation data, 16686
missile and satellite, removing sea-water salt residues, sand, dust, and soluble corrosive products, field experience, 6548
VHR, range residuals, 15169
Radbruch, Dorothy H., tectonic creep in Hayward fault zone, Calif., 4517
RADC, *see* Rome Air Development Center.
Radial coolant channels fabricated by simplified method, 12309
Radial flow, *see* Flow.
Radial heat equation and Laplace transforms, 2361
Radiant energy:
calorimeter accurately measures thermal radiation energy, 6384
Radiant energy—Continued
distribution pattern of 3 gas-fired infrared chick brooders, 9777
in relation to forests, 1609
radiative interactions between absorbing-emitting and flowing media with internal energy generation, 15197
transfer measurements in air, 16601
transport in BeO, 1352
Radiant heating, seeded gas in coaxial-flow gaseous reactor, 4943
Radiation:
accelerator dosimetry and experience, AEC symposium, proceedings, 12674
air radiation tables, spectral distribution functions for molecular band systems, 15060
air-scattered in basement structures, attenuation, 3846
atomic-irradiation, effects you can expect on seeds, 5428
atomic transition probabilities—
bibliography, 7916
hydrogen through neon, 11092
biological effects on seeds, experiments—
for 9th and 10th grade students, 5420
for students beyond 10th grade, 5421
chimera and transplant immunity, USSR study, 14020
conductivity changes produced in ice by optical irradiation 0.8 to 2.7μ, 15505
damage—
immune response in mouse spleen cells, chemical protection, 15494
silicon solar cells from proton, bombardment, 6547
surveillance of power reactor pressure vessels, 12430
dielectrometer design permits measurement in vacuum under irradiation, 16624
dose, to various body organs from inhalation or ingestion of soluble radionuclides, 15532
early radiation-biochemical reactions, USSR study, 17785
effects—
electron radiation on unijunction transistors, 13714
on microbial flora surviving seafood pasteurization, 5411
submicroscopic structure of sympathetic neuron, 11380
test program, SNAP 8, GNL Radiation Effects Reactor—
components and sub-assemblies, 7747
electrical insulation materials, 7746
gamma spectrum measurements, 7745
thymidine incorporation into DNA, 5329
electron irradiation of polyethylene terephthalate insulated ribbon wire, transient effects, shunt capacitance effects on, 7849
external environmental, 11424
food—
irradiaton, world outlook, 5417
pasteurization accomplishment, 5th annual contractors meeting, 5387
preservation by irradiation, evolution and present status in world, 12669
preservation, effects of low level irradiation, 8294
processing, hearings, 450
products, approval by Food and Drug Administration, etc., status of petitions, 12692
from slot antenna in ground plane covered by warm plasma layer, 12366
genetic effects, 15547
Hungary, control of dosage received by workers, decree, 4610
hygiene, reports on basic problems discussed at 4th practical scientific conference, USSR, 1013
Ichiban critical assembly, neutron and gamma-ray leakage, 12671

Radiation—Continued
instruments using nuclear sources, etc., all-Union group isotope catalog, 11415
irradiated organic coolants, friction factor and heat transfer correlation, 9920
irradiated-pasteurized fishery products, study, 15539
irradiating experimental animals, technique, USSR study, 9143
irradiation—
cesium 137 facility for ecological research, development, 8293
possibilities in 2 kilocurie Co-60 radiation unit at Voris Kidric Institute at Vinca, Yugoslavia, 951
isotopes and radiation technology, review of recent developments, 3092
kinetics of recuperation following 55 Mev proton irradiation, 5335
measurements in conventional structures, 3846, 15527
nongrey, effects on boundary layer of absorbing gas over flat plate, 16597
nuclear, processing of optical maser materials, 16971
optical, from Trailblazer IIa9° half-angle blunt nose cone during hypersonic reentry, 4956
pasteurization—
Pacific crab and flounder, 11437
shrimp and oysters, 11430
physics, 142
polymerization method for synthesis of high molecular compounds, USSR study, 9069
postirradiation creatinuria in Macaca mulatta primates, 14190
problems of radiation safety in space flights, 2439
produced plastic impregnated wood in southern region, commercialization of process of manufacturing, 11438
pyrolytic products of irradiated cigarettes, 5395
radiation-induced oxidation of hydrocarbons, 5396
radiations of space (series), 1621
radiative interactions between absorbing-emitting and flowing media with internal energy generation, 15197
radio frequency, measures of protection to be taken working with oscillators, USSR study, 915
radioecology, terrestrial and freshwater, bibliography, 11434
resistant device phenomena, 6338
resistant silicon solar cells, epitaxial structures, development, 10941
safety and health standards for Federal supply contracts under Walsh-Healey public contracts act, regulations, 11313
safety considerations in preparation of license applications, notice, 1686
safety during space flights, 11082
safety for civil airports, 3805
safety manual, 6688
safety regulations during gamma ray defectoscopy, Bulgarian study, 2226
SAM high level cobalt-60 irradiation facility, 1623
semiconductor forms biomedical radiation probe, 12297
simultaneous heating treatment of precooked marine products, 11425
soil and sediment analysis, sample preparation, 15277
space 4, effects of 400 Mev protons on primates, 5327
standards of importance to national atomic energy program, 7919
synthesis, halogen compounds, final report, 15529
table of radiation characteristics for uniformly spaced optimum endfire arrays with equal sidelobes, 2451
techniques, radiochemical analysis, 5013
Radiation—Continued
technology, postharvest procedures as means of extending shelf life of fruits and vegetables, 5413
TIROS measurements and variations in atmospheric heating, 17874
TIROS IV data, tropospheric water vapor content and surface temperatures, 16606
transistor design effects on resistance, 15075
use for inhibition of bacterial growth in liquid media, 5393
used to temperature compensate semiconductor strain gages, 10995
vortex stabilized radiation sources for improved solar simulation, basic studies, 9436
weather and surface radiation prediction activities, Project Dribble, Salmon event, 5414
see also Albedo—Beta rays—Bremsstrahlung radiation—Cosmic rays—Gamma rays—Heat transfer—Infrared rays—Ionizing radiation—Radiant energy—Radio waves—Solar radiation—Thermal radiation—Ultraviolet rays—Van Allen radiation belts—X-rays.
Radiation biology, *see* Radiobiology.
Radiation chemistry, *see* Radiochemistry.
Radiation Council, *see* Federal Radiation Council.
Radiation detection instruments:
large volume detectors, evaluation and application to radioisotope process control, 8276
wedge immersed thermistor bolometer measures infrared radiation, 1206
see also Scintillation counters.
Radiation environment, *see* Environment.
Radiation illness:
acute—
and dosage determination, USSR study, 9065
complex therapy, USSR studies, 2242
polyglucine used in blood transfusion and radiation sickness, USSR study, 4596
workmen's compensation legislation, Federal-State cooperation in improvement, report and workshop proceedings, 1687
Radiation injuries:
combined trauma, research, clinical management and planning, review, 12488
hypophysis and adrenals in presence of radiation injuries to organism, USSR studies, 4691
Soviet study, 1017
workmen's compensation and radiation injuries, studies, 1687, 6873
Radiation laboratories:
hot laboratories, annotated bibliography, 1683
new high level, at NRL, design, construction and equipment, 1353
Radiation sickness, *see* Radiation illness.
Radiators:
central fin-tube, comparison of 1- and 2-dimensional heat-transfer calculations, 16698
direct-condensing, for large space power systems, weight study, 4963
space, low-temperature direct-condensing vapor-chamber fin and conducting fin radiators, analysis, 1268
Radiators (aircraft):
space radiator panels utilizing shared fins, heat-rejection characteristics, 15189
straight finned, weight optimization, design procedure, 15143
Radio:
industry, products, USSR, catalog, 16502
meteorology, NBS monograph, 7917
publications, price list, 16788
radio science, 3449
journal of research, National Bureau of Standards, 3103
rangefinders, experience in working with, USSR study, 16482

Radio—Continued
USSR all-Union scientific session devoted to radio day, section on—
antennas, 13560
cybernetics, 13520
electronic computers, 13538
electronics, 14831
general radio engineering, 14942
microelectronics, 13574
propagation of radio waves, 14829
quantum electronics, 14838
radio broadcasting, electroacoustics and sound recording, 14937
radio measurements, 14938
radio receivers and amplifiers, 14941
radio transmitters, 14940
semiconductor devices, 14828
telemechanics, 14816
television, 14939
theory and techniques of transmitting discrete signals, 14830
theory of information, 13562
waveguides, 13561
wire communications, 14936
Radio announcers, examination announcement, 6975
Radio apparatus and appliances:
radio-controlled skyline yarding system, economics and design, 2076
selling and servicing, bibliography, 12503
Radio astronomy:
ancient novae and supernovae recorded in annals of China, Korea, and Japan and their significance in radioastronomy, 4993
Ukrainian research, status and outlook, 10721
Radio broadcasting:
agreement with Mexico, protocol, amend—
message from the President, 13075
report, 13089
applications, FCC, 2916
broadcast actions, reports, 2916
call signs, request for new or modified, FCC reports, 2916
career intern program in broadcasting, 5197
declaration by voice of Pathet Lao, 6167
experimental, auxiliary, and special services, FCC rules and regulations, 2921
market news by wireless, 15465
occupations, employment outlook, 9310
ratings, methodology, accuracy, and use, report, 4082
services, FCC rules and regulations, 2921
weather aids—
Atlantic and Mediterranean area, 2485, 12409
Pacific and Indian Oceans, 5058, 7961, 13899
see also Radio stations.
Radio communication:
amateur service, FCC rules and regulations, 2924
applications, FCC, 2916
aviation, public safety, industrial, and land transportation services, FCC rules and regulations, 2923
channels, theory with random varying parameters, USSR study, 10771
citizens radio service, FCC rules and regulations, 2924
domestic, public services, FCC rules and regulations, 2925, 13314
experimental services, FCC rules and regulations, 2920, 14619
House Members, radio-telegraph allowances, additional, report, 12928
industrial, scientific, and medical equipment, FCC rules and regulations, 2920, 14619
international fixed public services, FCC rules and regulations, 2925, 13314
printer, equipment, USSR study, 7621
regulation by FCC of devices which cause interference in reception, report, 10314
Radio communication—Continued
safety and special radio services, FCC applications and actions, 2916
space, problems, 4988
treaty matters, FCC rules and regulations, 2920, 14619
USSR all-Union scientific session devoted to Radio Day—
antennas section, 13560
theory of information section, 13562
waveguides section, 13561
Radio engineering, general, USSR all-Union scientific session devoted to radio day, 14942
Radio equipment, *see* Radio apparatus and appliances—Radio communication.
Radio frequencies:
allocations, FCC rules and regulations, 2920, 14619
atmospheric tracking errors at S- and C-band frequencies, 13811
devices, FCC rules and regulations, 2920, 14619
devices which emit frequencies harmful to radio reception, regulate, report, 10314
ferroelectric bolometer measures RF absolute power at submillimeter wavelengths, 6377
high-frequency Doppler technique, use in observation of solar flare effects, 5018
power transfer to ion-cyclotron waves in collision-free magnetoplasma, 7876
standard services provided by NBS stations WWV, WWVH, WWVB, and WWVL, 9552
zonal harmonics in low frequency terrestrial radio wave propagation, 13866
Radio frequency filters, optimum pulse filters and signal accumulators, USSR study, 16501
Radio frequency modulation:
broadcasting stations of world, 14688
FM telemetry, etc., for aerodynamic measurements in wind tunnels, 6462
Radio in navigation:
aids—
Atlantic and Mediterranean area, changes, 2484, 11146, 15238
Pacific and Indian Oceans area, changes, 1339, 5057, 9585, 13898
Radio interference, protection of receiver from being overloaded by interference, USSR study, 975
Radio interferometers, *see* Interferometers.
Radio measurements:
accuracy in electrical and radio measurements and calibrations, 1965, 1298
pulsed-sound range finder measurements, accuracy of points determined by mean square and elliptical errors methods, USSR study, 910
USSR all-Union scientific session devoted to radio day, 14938
Radio noise, *see* Noise.
Radio operators:
amateur, alien, agreement to operate in U.S. and—
Colombia, 5169
Ecuador, 5157
Germany, 18125
Great Britain, 9730
India, 15373
Israel, 15366
Luxembourg, 5170
Paraguay, 11277
commercial, FCC rules and regulations, 2919
radioman 3d class, curriculum for Naval Reserve training program, 13903
Radio physics, *see* Radiophysics.
Radio propagation, *see* Radio waves.
Radio pulse code modulation:
coherent PCM channel, signal and noise level estimation, 7734

Radio pulse code modulation—Continued
unified (integrated) switching system and multiplexing, application of pulse-code modulation (IKM) in building, USSR study, 926
Radio receivers, *see* Receivers (radio).
Radio service technicians, employment outlook, 9285
Radio services, *see* Radio communications.
Radio signals:
fading characteristics, Echo II, 13715
linear signal noise summer determines and controls S/N ratio, 17900
phase variations of 16 kc/s signals from GBR observed at College, Alaska, 1297
pulse-time signal modulation for hydroacoustic communication system, USSR study, 2263
ray tracing in rising and falling ducts, 1360
stability of ultrashort wave signals along medium range mountain routes, USSR study, 7556
Radio stations:
amateur, alien, agreements authorizing operation in U.S. and—
Colombia, 5169
Ecuador, 5157
Germany, 18125
Great Britain, 9730
India, 15373
Israel, 15366
Luxembourg, 5170
Paraguay, 11277
broadcasting stations of world—
amplitude modulation—
indexed by country and city, 14686
indexed by frequency, 14687
frequency modulation, indexed by country, city, frequency, 14688
television, indexed by country, city, frequency, 14689
maritime services on land, shipboard, etc. FCC rules and regulations, 2922
WWV, WWVH, WWVB, and WWVL, standard frequency and time services provided by NBS, 9552
Radio telemetry:
Roberts radio current meter manual, 6981
utilization for study of gastric and intestinal temperature in man, USSR study, 6209
Radio telescopes:
orbiting, large, preliminary design studies, 15070
resolving power, conditions affecting, USSR study, 1036
Radio transmitters, *see* Transmitters
Radio-TV packet, FDA (periodical), 3450
Radio waves:
attenuation of radio waves from artificial earth satellites in above-surface trajectories, USSR study, 14890
investigation of refraction in lower layers of atmosphere at low angles of elevation, USSR study, 4612
irregular, ionospheric refraction, measuring by signals from artificial earth satellites, 12192
LF, antenna cut-back factor, computations, 6480
propagation—
in earth's crust, USSR study, 2234
interplanetary and near solar space, USSR study, 13461
transmission loss predictions for tropospheric communication circuits, 13861–862
USSR all-Union scientific session devoted to radio day, 14829
USSR study, 7575
zonal harmonics, 13866
Radio waves—Continued
radio-radar propagation, elevated trade-wind ducts, airborne early warning UHF radar observations, 7974
refraction, refractive index structure of lower atmosphere, etc., 7917
short-wave communication with spaceships, peculiarities, USSR study, 7565
ultrashort, investigation of properties of field fluctuations during propagation in troposphere, USSR study, 13450
ultrashort wave signals, stability along medium range mountain routes, USSR study, 7556
very-low-frequency, modal interference, 6554
see also Microwaves.
Radioactivation analysis:
activation analysis, report, 5013
neutron activation analysis procedures for determination of oxygen and potassium, 7744
research studies, 6856
Radioactive substances:
contamination resulting from use of nuclear explosives for stimulating petroleum production, 1158
dust, retention by greenery, USSR study, 16403
incidents involving AEC shipments, 9927
methods of combating radioactive pollution, Bulgarian study, 7616
nuclides, half lives of materials used in preparation of standard reference materials by NBS, 1294
recent developments, USSR, 4658
Radioactive tracer system detects oil contaminants in fluid lines, 7766
Radioactive waste disposal:
article on sources and disposal of radioactive wastes, 15549
postulated liquid-waste releases, hydrologic analysis, 13394
Radioactivity:
aerial radiological measuring survey (ARMS)—
Albuquerque-Los Alamos area, 8279
Cincinnati area, 8280
D.C. and parts of Md., Va., and W. Va., 9917
Denver area, Colo., 12670
Puerto Rico, 11419
San Francisco, Calif., region, 11417
atmospheric, in Antarctica, 6551
autoradiographic examination of airborne fallout for Oct.–Nov. 1964, 1413
build-up of corrosion products in pressurized-water reactor, effect of purification system, 10745
carbohydrates, progress report of Organic Chemistry Section, July 1964–June 1965, 1299
fallout—
defense on farm, 33
global fallout products of nuclear explosions, 11414
Health and Safety Laboratory program, quarterly summary reports, 146, 5391, 8283, 12679
interception and retention by desert shrubs in Sedan fallout field, 5397
measurement on to high polar ice sheets, laboratory techniques and results, 8235
nuclear weapons tests, conference proceedings, 5384
protective action guides, hearings, 4038
fallout shelters—
analysts, national directory, 14289
architectural, engineering, and consulting firms with certified analysts directory, supp., 6958
buildings with shelter areas, 12747
creation through slanting and cost reduction techniques, 1747, 14291
handbook for emergencies, 9987

Radioactivity—Continued
fallout shelters—continued
national community design competition awards, 5514
professional development services in planning, etc., new buildings, 14290
protection factor estimator, instructions in use, 5513, 12746
protection for homes with basements, handbook, 5510, 15623
reading phase 2 printout, self-teaching materials, 17031
rural, analysis workshop—
instructor manual, 8384
student manual, 8386
schools, 5515
technical report, 17632
filter pack technique for classifying radioactive aerosols by particle size, 1381–82
ground-water safety, Project Dribble, 5416
Iodine-131, measurement in bovine thyroids, 2535
man-made, environmental studies, 11441
natural environmental, annotated bibliography, 160
pharmaceuticals, symposium proceedings, 12675
processing of counting data, 14236
Project Sulky—
off-site surveillance, 16973
on-site safety, 16974
radioactive equilibrium extent between radon and its short-lived daughter products in atmosphere, 16757
soil and sediment analysis, sample preparation by ultrasonic dispersion, 15277
techniques for continuously measuring flotation froth density and pulp flow rates, 17864
upper atmosphere, sampling, agreement with, Australia, 15362
water pollution in Colorado River basin, hearing, 11832
Radioastronomy, *see* Radio astronomy.
Radiobiological Laboratory, Beaufort, N.C.:
Commercial Fisheries Bureau—
1964 report, 2036
1965 report, 13342
Radiobiologiya (periodical):
translations, 1674–75, 11411, 15526
Radiobiology:
intraspecies biologic and behavioral variability, 14193
studies, computer system, 12643
space radiobiology, training and operations, concept, 5299
USSR periodical, translations, 1674–75, 11411, 15526
Radiocarbon, *see* Carbon isotopes.
Radiochemical analysis:
activation analysis, instrumentation, radiation techniques, and radioisotope techniques, 5013
filter samples collected under Project Stardust, results, 8282, 9919
Radiochemical Analysis Division, annual progress report, 5013
Radiochemistry:
arsenic, 1678
nuclear chemistry—
USSR study, 13568
Warsaw University, Hungarian scientist reports on studies, 12104
radiochemical water analysis in reactor, chromatographic separation, USSR study, 14852
selenium, 1679
techniques, processing of counting data, 14236
Radioelements, toxicity, AEC research program, 8306
Radiography:
commercial film produces positive X-ray photo in 10 seconds, 13743
industrial, AEC licensing guide, notice, 1686
Radiography—Continued
nondestructive testing techniques, handbook, 16213
radiographic and visual soundness requirements for cobalt-chromium alloy liners for small arms barrels, military standard, 11853
Radioiodine, *see* Iodine isotopes.
Radioisotopes, *see* Isotopes.
Radiological defense, planning and operations guide, 11493
Radiological health, *see* Health.
Radiological Research Laboratory, Columbia University, annual report on research project, 15535
Radiological telemetering systems, instrumented telemetering deep sea buoys, 315
Radiologists, Belorussian SSR, 3d conference, 6157
Radiology:
experimental and clinical radiology problems, USSR study, 9149
health data, monthly report, 3451
lower Columbia River in Oregon, Aug. 1963–July 1964, survey, 2537
off-site radiological surveillance, Project Dribble, Salmon event, 6868
on-site safety, Project Sulky, 16974
protecting and improving health through radiological sciences, 13988
weather and radiological surveillance, Nevada test site, Project Handcar, 3848
World War II, 16969
see also Medical radiology.
Radiology technicians, Air Force manual, 1617
Radiomen, *see* Radio operators.
Radiometers, Project Fire instrumentation, 17918
Radionuclides:
content of foodstuffs collected at Christmas Island during Operation Dominic, 8297
determination of heat-shield char-front recession with nucleonic technique, 9511
food and water samples, analysis, 12465
half lives of materials used in preparation of standard reference materials by NBS, 1294
soluble, inhalation or ingestion, dose to various body organs, 15532
Radiophysics, significant achievements, 9446
Radios, *see* Receivers (radio).
Radiosondes:
code, manual, amendment, 5227
meteorological systems, interagency value engineering task force study, 5853
observations, computation tables and diagrams, 9765
Radiotelegraphy, *see* Radio communication.
Radiotelemetry, *see* Radio telemetry.
Radiotelescopes, *see* Radio telescopes.
Radium:
active interest of Public Health Service (paper), 1435
New Jersey cases, epidemiological follow-up, progress report, 9921
Radon, radioactive equilibrium extent between radon and its short-lived daughter products in atmosphere, 16757
Raffo, Peter L.:
influence of boron additions on physical and mechanical properties of arc-melted tungsten, etc., 4973
mechanical properties of solid-solution and carbide-strengthened arc-melted alloys, 6434
Ragan, Robert C., financial recordkeeping for small stores, 6602
Ragsdale, Robert G.:
data comparisons and photographic observations of coaxial mixing of dissimilar gases at nearly equal stream velocities, 2418
effects of momentum buffer region on coaxial flow of dissimilar gases, 2424

Railroad accidents:
all line-haul and switching and terminal companies, summary, 3553
investigation reports, 2136–42, 6094–99, 12069–86, 14785
safety, ICC operations, report, 8620
print additional copies, report, 10209
summary and analysis, bulletin, 10693
Railroad Adjustment Board, *see* National Railroad Adjustment Board.
Railroad cars:
equipment of class 1 railroads, 3227
long travel shock mounts, impact testing for transportability rail instrumentation, 5378
maintenance, Army technical manual, 6848
see also Freight cars.
Railroad employees:
benefits for workers and their families, 14004
employment outlook, 9313
hours of service act of 1907, amend to provide 16-hour limitation for certain employees, 15976
railway labor act—
amend to provide for establishment of special adjustment boards—
hearing, 7226
law, 11565
reports, 5654, 10319
text, 1323
retirement act of 1937, etc.—
amend to provide supplemental annuities, etc.—
hearings, 16196, 17384
reports, 15947, 17532
amend to provide survivors benefits for children, ages 18–21—
hearings, 11666, 10361
reports, 15947, 17532
amend to remove provisions which deduct social security benefits from annuities of spouses, report, 1826
annuities under, adjustments—
hearing, 11666
reports, 15947, 17532
retirement tax act, amend to change rates of tax, hearing, 16196
wage statistics, class 1 railroads, 3685
work rules dispute, settlement, law, administration, hearings, 5802, 13197
Railroad equipment, *see* Railroad supplies.
Railroad retirement acts, *see* Railroad employees.
Railroad Retirement Board:
appropriations, 1967—
hearings, 8650, 14472
reports, 8626, 16151
monthly review, 3219
report, 1965—
departmental edition, 11207
document edition, 10100
Railroad Safety and Service Bureau, Railroad Safety Section, annual report, 7542
Railroad Safety Section, annual report, 7542
Railroad supplies:
census of manufactures, 1963, industry statistics, 8338
Federal item identification guides for supply cataloging, supplements, 2932
Railroad switches, operating with economical and maintenance-free gas systems, 7780
Railroads:
All-Union Scientific-Research Institute of Railway Hygiene, report on laboratories, 16391
automatic block signal systems, etc., rules, standards, and instructions for installation, inspection, maintenance, and repair, 16385
automation in operations, USSR study, 12145
carload traffic freight rates, 1955–63, indexes, 6090
carload unit costs by territories, 14784
Railroads—Continued
carload waybill statistics, 1963—
agricultural products, 7532, 7535
all commodities, 6080
animals and products, 6081
forest products, 6083
manufactures and miscellaneous and forwarder traffic, 6082, 7531
mileage block distribution, traffic and revenue by commodity class, 7531–33, 12061
mileage block progressions for traffic and revenue by commodity groups and classes, 10695
mileage distribution by type of car, 7534
mine products, 7533, 7536
supplement, 7543
territorial distribution by type of car, 9056
tons of revenue freight originated and tons terminated by States and commodity class, 7537
traffic and revenue, territorial distribution by commodity classes, 6084
weight distribution by type of car, 12062
class 1—
freight commodity statistics, annual report, 17747
income and balance-sheet items, 3506
motive power and car equipment, 3227
operating revenues and expenses, 3295
petroleum products, distribution, 2860, 7540
revenue traffic statistics, 3476
train and yard service, 3584
coal leasing limitations, repeal—
hearing, 13219
report, 13167
control, man-machine relationships, USSR study, 17791
high speed ground transportation (remarks), 1776
interstate commerce act, amend—
law, 10081
report, 8624
large—
operating revenues and expenses, 3296
operating statistics, 3297
lessors and proprietary companies, 1964 transport statistics, 874, 10699
maintenance of railroad way and structures, Army technical manual, 14230
party activities in ministry of railways, USSR, 9067
private car lines, 1964, transport statistics, 4585
relocation of railroad facilities for Walter F. George Lock and Dam, Fort Gaines, Ga., Engineers Corps, Army, GAO report, 6024
safety, ICC operations, report, 8620
print additional copies, report, 10209
schedule of annual indices, 10698, 17748
telegraph communications in railroad transportation, USSR study, 16400
transportation facilities, Army technical manual, 5373
USSR operations, improvement, suggestions and proposals, 14819
work rules dispute, settlement, law, administration, hearings, 5802, 13197
see also Electric railroads.
Rails (birds):
hunting, possession, transportation, importation in Alaska, 1966–67, regulations governing, 14673
Railways cars, *see* Freight cars—Railroad cars.
Railway equipment, *see* Railroad supplies.
Railway Express Agency, Inc.:
Civil Aeronautics Board, Federal Maritime Commission, Interstate Commerce Commission, research collaboration, staff study, 4583
1964 transport statistics, 874, 10699
Railway labor act, *see* Railroad employees.

Railways, *see* Electric railroads—Railroads.
Rain:
  chemical compositions, eastern North Carolina and southeastern Virginia, 13414
  comparison of kinematically computed precipitation with observed convective rainfall, 1537
  daily river and rainfall bulletins—
    Shreveport, La., area, 2825
    Vicksburg, Miss., area, 2826, 2833
  runoff on snow, effect of snow compaction, 12494
  seepage, building decay associated with, 16942
  throughfall for summer thunderstorms in juniper and pinyon woodland, Cibecue Ridge, Ariz., 6033
  traps, water for livestock, 14133
  tritium rainout over U.S., 10638
  see also Precipitation.
Rain making, *see* Weather control.
Rainbow Bridge National Monument, Utah, general information, 6515
Rainbow which became related to Molniya color transmission over 80,000 kilometers, 4635
Rainey, A. Gerald, divergence characteristics of delta- planform canard controls, 7898
Rainfall, *see* Rain.
Rains, Norman M., relief, 8535, 14342, 16038
Raising a few cattle for beef, 12605
Raising small flock of sheep, 12600
Raisins, malathion-treated drying trays to protect from insects, 14111
Rakich, John V., hypersonic flow over flared bodies at incidence, 4958
Raleigh, N.C., area wage survey, 2301
Ralph M. Parsons Company, *see* Parsons, Ralph M., Company.
Rameib, Benjamin A., relief, 392
Ramey, James W., television in medical teaching and research, 4319
Rampart, Alaska, probable maximum flood on Yukon River, meteorological conditions, 15420
Ramps, deflection angle effects on laminar boundary layer separation in hypersonic flow, 6454
Ramseier, René O.:
  some physical and mechanical properties of polar snow, 8234
  temperature dependence and mechanism of sintering, 15507
Ramseyer rule of proposed amendments to Peace Corps act, 14420
Ramseyer rule print of proposed Foreign Service act, amendments of 1965, 1858, 7139
Ran, Lim Ai, *see* Lim Ai Ran.
Ran, Lim Soo, *see* Lim Soo Ran.
Ranches:
  Arizona and New Mexico range cattle ranches, economic and operational characteristics, 5866
  western livestock—
    grazing fees and permitted use of rangelands on incomes, effects of changes, 4279
    1965, costs and returns, 14529
Rand, A. Stanley, aspects of ecology of iguanid lizard Tropidurus torquatus at Belem, Para, 14015
Rand, Robert L., nomination, hearing, 17573
Randall, K. A., address, July 27, 1966, 14623
Randle, Robert J., sextant sighting performance in measuring angle between stationary simulated star and stationary blinking light, 13822
Randolph, J. R., bibliography of hydrology of United States, 6042
Random excitation, *see* Noise.
Random processes, *see* Probabilities (mathematics).
Range conservationists, *see* Range-management specialists.
Range finders, radio, experience in working with, USSR study, 16482
Range finding, pulsed-sound, measurements by mean square and elliptical errors methods, accuracy of points determined, USSR study, 910
Range lands:
  Crow Creek Indian Reservation, inventory, 9031
  forbs, notes, 8142
  grasshopper control, hitting the hot spots, 15474
  grazing fees and permitted use on incomes of western livestock ranges, effects of changes, 4279
  helicopter fertilizing of foothill range, 17694
  northern New Mexico, lambing range, grazing effects, 13367
  publications, price list, 12458
  western range and livestock report, monthly, 3705
Range-management specialists:
  conservationist trainee, examination announcement, 1752
  managers, conservation occupations, 9224
  seasonal employment, information, 6274
Range residuals in VHF radar tracking, 15169
Ranger, *see* Spacecraft.
Rankin, John Elliot, Memorial Veterans Hospital, *see* John Elliot Rankin Memorial Veterans Hospital.
Rankine cycles:
  modified, steady-state performance using water, 6470
  space power systems, AIAA specialists conference, 12673
Ransom quadrangle, Pa., geology, 13397
Raphael, Pedro, relief, 15831, 17451
Raphaelson, Arnold H., Federal expenditures to States and regions, 13213
Rapid City, S. Dak.:
  District Court terms to be held—
    law, 17130
    report, 17244
Rarefaction, effect on processes of gasdynamic friction during blowing or suction through wall adjacent to flow, 4997
Rarefied atmosphere, *see* Atmosphere.
Rarefied gases, *see* Gases.
Raschke, Ehrhard, tropospheric water vapor content and surface temperatures from TIROS IV radiation data, 16606
Rasetti, Franco, new Lower Cambrian trilobite faunule from Taconic sequence of New York, 12506
Rasmussen, Maurice L., damping in nonlinear oscillations, 16709
Rasmussen, W. C., Delaware water, 6039
Raspet, Rudolph, preparation of thermistor cables used in geothermal investigations, 9009
Rasters, parallel line, use to eliminate ambiguities in reading timing of pulses, etc., 15116
Rate computations, *see* Numerical calculations.
Rates, *see* Air carriers—Electricity—Freight rates.
Ratings:
  Army, readiness, REDCAT, REDCAPE, and REDCON, 9895
  Navy training publications for advancement, 9592
  peer, selection of officer candidates and cadets, research, 15525
  rater differences in officer effectiveness reports, preliminary investigation, 90
Ratio and proportion, body cross section and width-height ratio, effect on performance of bodies and delta-wing-body combinations at Mach 6.9, 11047
Ratio pyrometers, *see* Pyrometers.
Rations, Army, pamphlet, 14214
  see also Food for livestock.

Rats:
avoidance response, effects of alcohol and drugs, 5315
brain, nitrous exchange during action of pulse accelerations, USSR study, 16421
exposed to ionizing radiation, study of fluorescent products in urine, 8212
hydrazine effect on protein content of tissues in rat, 8202
metabolic aspect of effect of altitude on d-amphetamine, 9876
newborn, dorsal root ganglia in vitro following gamma irradiation, observations, 3796
ratproofing vessels, standards, 5106
Rauterkus, Thomas, frequency analysis of Korotkov blood pressure sounds, 8209
Raw materials:
AEC program, hearings, 10092
agricultural, for industrial use, 8124
Rawlins, Wyo., accident, 2139
Rawls, Nancy V., establishing business in Liberia, 12779
Ray, Edward J., transonic aerodynamic characteristics of tailless fixed-wing supersonic transport model, 7810
Ray, John W., relief of estate, 12878
Ray tracing in rising and falling ducts, 1360
Rayburn, Sam, Memorial Veterans Center, *see* Sam Rayburn Memorial Veterans Center.
Rayle, Warren D., ball lightning characteristics, 4935
Rayleigh waves, *see* Seismology.
Rays (fishes):
general information, 4404
Rasa, Haider, and family, relief, 12802, 13094
Rasak, Kenneth, planform effects on low-speed aerodynamic characteristics of triangular, etc., wings, 9398
Rasner, Ronald, magnetic control of flow of hot combustion gases in hydrogen-oxygen combustion at 14 atmospheres, 2425
Re, Richard J., investigation at Mach numbers from 0.40 to 1.00 of model with wing having inboard sections cambered for Mach 1.2, 11054
REA, *see* Rural Electrification Administration.
REA bulletins, 1453, 6595
Reaction heat, *see* Heat of reaction.
Reaction interface speed as reducibility index for iron ore, 15028
Reaction wheels:
use for satellite scanning small celestial area, 15184
with brushless DC motor drive, 7724
Reactions (chemical), *see* Chemical reactions.
Reactions (physiological), *see* Physiological reactions.
Reactor fuel elements, determining heavy-isotope content, 8277
Reactor fuels:
commercial plutonium fuels conference, 12678
development programs, summaries, 5407
nuclear fuel reprocessing, its role and responsibility (remarks), 16980
nuclear fuels and materials development, 6861
processing, review of recent developments, 3452
selected measurement methods for plutonium and uranium in nuclear fuel cycle, evaluation, 6854
Reactor power plants, *see* Nuclear reactor power plants
Reactor safety, *see* Safety of life.
Reactors (atomic):
aeroradioactivity survey and areal geology, Denver area, Colo., 12670
Reactors (atomic)—Continued
Beloyarsk atomic power plant type, use for dual-purpose desalinization systems, 2198
boiling water reactors, hydrodynamic instabilities limiting power, 15530
BONUS boiling nuclear superheater power station—
project completion report, 15537
startup summary report, 5383
abstract, 8278
Brookhaven high flux reactor, dedication (remarks), 8303
build-up of radioactive corrosion products in pressurized-water reactor, effect of purification system, 10745
built, being built or planned, U.S., 5408
chromatographic separation for radiochemical water analysis, USSR study, 14852
coaxial flow gas core, for radiant heating of seeded gas, 4943
cooling and coolants, bibliography, 3989
development program, AEC authorizing legislation, 1967, hearings, 8482, 10092
explosion containment laws for nuclear reactor vessels, 2502
facility operators, AEC guide for licensing, 3845
fast breeder development program, reactor physics efforts required, 11440
Federal item identification guides for supply cataloging, supplements, 2935
gas-cooled experimental, radiological health manual, 5389
gaseous-core nuclear propulsion system, effect of seeded propellent layer on thermal radiation in nozzle, analysis, 2415
gaseous-fueled cavity, criticality calculations and analysis, 13707
hazards, indemnity provisions of atomic energy act, amend—
hearings, 15778
law, 17135
reports, 15913, 15926, 16135
liquid-metal-cooled fast breeder reactors, primary piping flexibility analysis, 5388
materials, review of recent developments, 3453
nuclear power reactors, probabilistic methodology for safety analysis, 12684
nuclear systems, coupled-core stability, 9421
1000 MWe supercritical pressure nuclear reactor plant study, progress report, 161
Plum Brook reactor, heat transfer analysis, 15165
power reactor technology, review of recent developments, quarterly, 3335
pulsed, literature search, 1684
radiation damage surveillance of power reactor pressure vessels, 12430
Radiation Effects Reactor, Georgia Nuclear Laboratories—
components and sub-assemblies, 7747
electrical insulation materials, 7746
gamma spectrum measurements, 7745
safety—
literature search, 5402
maintenance when working with fissionable materials, USSR study, 13541
SNAP nuclear space reactor, principles and uses, 15551
technology, 1965 selected reviews, 5409
university research facilities, sign of times (remarks), 9935
wheel-flow gaseous-core concept, 1244
X-10, landmark of nuclear age (remarks), 14242
zero power, ZPR–II, critical mass studies, 1263, 15167

Read, Ralph A.:
windbreaks for central Great Plains—
how to arrange and space trees and shrubs, 4487
how to maintain new tree plantings, 4489
how to manage established plantings, 4491
how to prepare land and plant trees, 4488
how to protect them from damage, 4490
how to select tree and shrub species, 4486
how to use trees to protect land and crops, 4485
Reading, Pa.:
commodity transportation survey, production area series, 9952
motor carrier accident, 13443
Reading:
ability level, estimating from airman qualification examination general aptitude index, 8199
Civil Defense Office self-teaching materials for reading fallout shelter survey printout, 17031
improvement, training, Air Force manual, 12616
professional, guide for Navy and Marine Corps officers, 16750
remedial reading in rural community action, 11860
speed and power in high school, 11881
teachers, advanced study, NDEA institutes, summer 1966 and 1966–67—
list, etc., 58884A
manual, 5877
we read, children's books and recordings, selected list, 16223
Reading machines, USSR, 12089
Reagan, John F., jr., relief, 8524, 14360
Reagents, porous glass makes effective substrate for ozone-sensing reagent, 2383
Real estate:
acquire title, for construction of buildings for postal purposes by Post Office Dept., authorize, hearings, 10370
Federal surplus—
acquisition for health and educational purposes, 9027
disposal for public use, for private use, 9005
leased to U.S. throughout world, 10630
leases by Post Office Dept., extend authority—
hearings, 10370
law, 17129
reports, 12941, 13161, 16127
living units, minimum property standards, 2018
interim revision, 14632
minimum standards for multifamily housing, 699
owned by U.S. throughout world, 1965 inventory, 7478A
real property transferred by RFC to other Govt. departments, payment in lieu of taxes, extend, report, 17239
remove cloud on title to property owned by John Johnson, 13093
salesmen and brokers, employment outlook, 10864
subdivisions sold through mails and in interstate commerce, prevent frauds, hearings, 16178
title 1, property improvement loans, consumer bulletin, 13323
Spanish edition, 8899
VA rental property management, brokers' fees, report, 5650
see also Farms—Mortgages.
Real property, *see* Real estate.
Reanimation, *see* Revivification.
Reapportionment:
Virgin Islands, legislation, amend organic act—
hearings, 15975
law, 15729
reports, 10138, 13166, 14394
Reasoning:
dialectics—
life and philosophical science, USSR study, 9093
modern social development, USSR study, 2147
Reaves, W. A., investigation of barrier coatings on graphic molds for casting titanium, 6538
Rebellion in Russia's Europe, fact and fiction, 585
Reber, Carl A., double-focusing magnetic mass spectrometer for satellite use, 6422
Recall (psychology):
effect of context on recall of long verbal series, 16949
Receipts and expenditures, *see* Finance.
Receivables and bad-debt losses, 1700
Receivers (radio):
automatic gain control circuit handles wide input range, 7765
home-type and automobile, current industrial reports, 1732, 15586
home-type radios, Federal item identification guides for supply cataloging, supplements, 2939
protection from overload by interferences, USSR study, 975
USSR all-Union scientific session devoted to radio day, 14941
Receiving clerks, occupations, employment outlook, 9274
Receptacles (electric):
polarizing keys prevent mismatch of connector plugs and receptacles, 12296
Receptionists, employment outlook, 9268
Recipes:
cheese in family meals, 9818
fish—
Florida, 14656
Great Lakes, 746
for Project Head Start centers feeding program, 7278
money-saving main dishes, 11352
Navy-Marine Corps recipe service, 5182
pickles and relishes, 6747
poultry in family meals, 6749
quantity recipes for type A school lunches, 61
seafood, 13346
heirloom recipes to treasure, 16299
shrimp, can-venient ways, 13345
Reclamation Bureau:
appropriations, 1967—
amendment, 15784
public works, hearings, 10229, 16173
Columbia Basin project, employees, relief, 5734
dams, 16816
irrigation operation and maintenance bulletin, 3090
library accessions, 3145
press releases, 3402
Region 1 employees, relief, 10106, 12803
report 1965, statistical appendix, 5133
project data, 6593
research reports, 8010, 16817, 18088
safety record (periodical), 3485
transmission line construction practices, coordination, GAO report, 8984
Reclamation era, quarterly periodical, 3456
Reclamation of land:
amend small projects act of 1956—
law, 15732
reports, 11626, 14400
answering your questions about reclamation, 12493
compensation in connection with reclamation projects, amend law—
law, 17120
reports, 12982, 16146

239-221—67—No. 863——33

Reclamation of land—Continued
feasibility of proposals, Interior Dept. to investigate—
hearings, 11810
law, 15739
reports, 13151, 17214
Federal projects, 1965, crop report, 18087
statistical appendix, 15317
reclamation repayments and payout schedules, 1452
strip and surface mining study in Appalachia report, 16379
strip-mine reclamation, digest, 10614
survival and early growth of planted forest trees on strip-mine spoils in anthracite region, 10600
Reclamation projects, *see* Reclamation of land—*also* names of projects.
Recognition (psychology):
effect of context on recognition of long verbal series, 16949
Recognition identification guide:
aircraft insignia, foreign flags, code flags and pennants, 13901
U.S. military aircraft, U.S. warships, 11158
Recognition of voiceless fricative sounds from clipped speech signal, USSR, 4601
Reconnaissance (aerial):
image interpreters, selection battery, 9915
Reconnaissance (geologic):
Aurora area, St. Louis County, Minn., 7491
beryllium-bearing pegmatite deposits in 6 Western States, 13682
Reconstruction Finance Corporation transfer of real property to other Govt. departments, payment in lieu of taxes, extend, report, 17239
Record books, *see* Records.
Record players, *see* Phonographs.
Recorders, *see* Flight recorders—Recording instruments.
Recording instruments:
automatic recording installation for meteorological data, East German study, 1039
mulit-pen recorder, disclosures on, 7921
pricing of recorders purchased from Midwestern Instruments, Inc., by Air Force Dept., GAO report, 6020
ultrasonic recording scanner used for nondestructive weld inspection, 11014
see also names or types of instruments.
Recordings, *see* Phonorecords—Sound recordings.
Records:
career opportunities, State Department, domestic and overseas assignments, 2574
divorce, where to write, 5123
documents and texts, domestic photographic papers for printing, USSR study, 14948
Education Office handbook, standard filing system, 14557
employers, kept under fair labor standards act, 9763
Government departments, etc., disposition, reports, 504, 4089, 5633, 5639, 5667, 7082, 8606, 10118, 10168, 12947, 15836, 17210, 17224
motor carriers and brokers, destruction, regulations governing, 6100
National Archives, age and citizenship, 7906
papers in Library of Congress—
Carnegie, Andrew, 7680
Sayre, Francis B., 7684
public retention requirements, guide, 7416
small stores, financial recordkeeping, 6602
storage centers, high-expansion foam control, 8285
vital, protection, 15622
see also Medical records—Paperwork (office practice)—*also* subjects.
Recovery zones, optimum and nonoptimum recovery sites, lateral-range and lift-drag-ratio requirements for return to both, definition, 11079
Recreation:
and mental retardation, 18071
and public purposes act, amend, pertaining to leasing of public lands to States and their political subdivisions—
law, 11566
report, 11740
camping visits to America's national forests and grasslands, 8153
consumer information, price list, 2519
dilemma of America (remarks), 16773
equipment, Federal item identification guides for supply cataloging, supplements, 2939
expanding America's outdoor estate, 15255
facilities and services operated by FHA borrowers, 14541
facilities on Federal lands and waters, non-Federal management, 9619
Federal efforts to expand and develop opportunities by shifting cropland (remarks), 14152
Job Corps manual, 10404
loans for recreational enterprises, 8164
opportunities in State of Washington, study team report, hearings, print additional copies, reports, 10195, 10291, 14399
outdoor—
areas and facilities, guides, 7978
counties with projects under conversion program, 11344
enterprises in rural areas, handbook, 5912
Federal areas—
Federal executive policy governing reporting use, 11175
requiring entrance and user charges, 1966 directory, 11164
Federal assistance available to States, their subdivision, etc., 11165
Federal focal point, 16774
Federal investment, guides, 9618
Federal, questions and answers on fees, 9602
fees, regulations, 13431
for fun and profit, USDA helps expand, 16939
grants-in-aid manual, 3303, 11162, 15253
in National Capital region, 1303
Nationwide System of Trails, etc., Government programs (remarks), 9603
policy evolution (remarks), 15254
private development, opportunities and limitations (paper), 10417
private organizations providing assistance to individuals, organizations, public groups, directory, 11163
rural male residents' participation, 4455
outdoor recreation action, (periodical), 17981
outdoors calling you? Government publications, list, 12456
planners, success of campgrounds studied, 10568
programs, changing intergovernmental and interagency relationships (remarks), 9601
recreational open space priorities, 17946
rural renewal loans for recreational development, report, 15916
use estimate on complex of development sites, 16332
water resource projects, uniform policies and cost allocation, report, 1832
see also Boating.
Recreation Advisory Council, circulars, 9618–19, 11175
Recreation centers:
children's summer lunch program, establish—
hearings, 13030
report, 8634
Recreation, Sanitation and Safety Conference, proceedings, 8000

Recreation workers, employment outlook, 0269
Recreational areas and demonstration projects, Federal recreation areas requiring entrance and user charges, 1966 directory, 11164
Recruiting and enlistment:
accrued-leave payments to reenlistees, improvement in administrative audit by Finance Center, Army, Fort Benjamin Harrison, Ind., GAO report, 2082
Air Force recruiting service group, enlistment objectives based on aptitude and interest characteristics, 6807
Air Force, validation of recruiter-salesman selection test, 8200
Army Nurse Corps, general information, 5380
Army recruiting & career counseling journal, 3457
consolidation of field organizations and facilities, for recruiting military personnel, GAO report, 10622
Federal, our commitments (address), 1759
Recruiting for new partnership (address), 7318
Rectifiers:
feedback loop compensates for nonlinearity, 15112
medium and high-power monocrystal, semiconductor, USSR studies, 13545
single crystal semiconductor, medium and high power, East German study, 12136
thin-film semiconductor, has improved properties, 4849
Rectum, cancer, 7995
Red alder, *see* Alder.
Red cedar, *see* Cedar.
Red Chinese blueprint, 5338
Red Cross, International Committee, *see* International Committee of Red Cross.
Red Dane cattle, *see* Cattle.
Red fir, *see* Fir.
Red flag (Chinese periodical):
translations, 3588
Red oak, *see* Oak.
Red pine, *see* Pine.
Red Poll cattle, *see* Cattle.
Red River, N. Mex., climatic summary of resort area, 10447
Red River and Valley, basin, water pollution control, comprehensive program, 17669
Red Rock Lakes National Wildlife Refuge, general information, 14672
Red Sea, lights and fog signals, list, changes, 2481, 9583, 13896, 17970
Red tide, Bureau of Commercial Fisheries symposium, 4425
Red Wing, Minn., railroad accident, 12074
Red-winged blackbirds, *see* Blackbirds
Redevelopment (city planning, etc.):
area redevelopment—
approved projects, directory, Area Redevelopment Administration, 2685
creating conditions necessary for economic growth (address), 1767
designing overall economic development programs (address), 323
New England region (remarks), 5562
Ozarks region (remarks), 5559
upper Great Lakes (remarks), 5560
Area Redevelopment Administration, technical assistance, cumulative report, quarterly, 3438
areas eligible for financial assistance, maps, 8820, 16218
areas, summary list, designation status report, 3552
bonds or notes issued by local urban renewal or public housing agencies, incontestable in hands of bearer, opinion of Attorney General, 6248
demonstration cities and metropolitan development act of 1966, reports, 13186, 15897, 17241, 17336
Redevelopment (city planning etc.)—Con.
Department of Housing and Urban Development, international programs, 840
economically deprived redevelopment areas employing largest numbers of long-term unemployed (remarks), 12795
housing and urban development act of 1966—
hearings, 8659
reports, 13188, 14388, 17202
summary of House bills, 8664, 13023
laws on urban development, compilation, 1847
local public agency letters, 3164
National Capital, 1966–2000, regional development guide, 15213
National Citizens' Commission report of Commitee on Urban Development, 13022
new roles in redevelopment (remarks), 5203
noncash grant-in-aid credits, policies and practices in approving claims, Renewal Projects Administration, GAO review, 17710
public works and economic development act—
broaden coverage, hearings, 14438
facts, 16217
redevelopment (periodical), 3458
regional development, New England (remarks), 5558
rural and urban planning, uses of airphotos, 11348
separating storm and sanitary sewers in urban renewal report, 15847
social aspect of urban development, seminar, 2624
urban planning assistance program—
project directory, 6685, 14761
report, 3468
urban planning studies, economic factors, 8109
urban renewal—
America, preserving historic sites, 12037
directory, 3652
manual, 3653, 5205
New Jersey and Illinois projects, allocation of school facility costs, GAO report, 6002
notes, 3654
operations under title 1, Housing act of 1949, report, 3469
program, housing and urban development act of 1965, changes incorporated, summary, 2109
project characteristics, 9756, 15412
rehabilitation, minimum property standards, 16272
relocation assistance, report, 13155
Redlinger, L. M., evaluation of 4 inert dusts for protection of shalled corn in Georgia from insect attack, 14109
Redmon, Henriette L., relief, 17424
Reduction of Nonessential Federal Expenditures, Joint Committee, committee prints, 2639–40
Reduction roasting-acid solution techniques in processing Minnesota manganiferous ores, 10918
Redwood:
old-growth cuttings, natural regeneration, 10581
2d-growth, strength and related properties of randomly selected sample, 8969
Redwood National Park, established, hearings, 14490, 16189
Reed, J. E., induced recharge of artesian glacial-drift aquifer at Kalamazoo, Mich., 13416
Reed, J. L., UH–1D aircrew armored seat crash, survival analyses, 139
Reed, Louis S.:
Blue Cross and Blue Shield plans, 1964 finances, 5145
enrollment of Blue Cross and Blue Shield plans, 1964, 1469

Reed, Louis S.—Continued
extent of health insurance coverage in United States, 6612
independent health insurance plans, 15331
national health expenditures, 2566
Reed, Sarah R., continuing education for librarians, conferences, workshops, and short courses, 8838
Reed, Sherwood C.:
performance study of DEW line ice cap stations, Greenland, 14211
spread footing foundations on snow, 14212
Reels:
automatic, controls filler wire in welding machines, 11028
expandable takeup, facilitates paper tape removal, 15129
Reemployment leave, *see* Leave of absence.
Reemployment of veterans, *see* Veterans.
Reenlistment, *see* Recruiting and enlistment.
Reentry into atmosphere, *see* Atmospheric entry.
Reentry vehicles, *see* Spacecraft.
Reeves, Robert G., geology and mineral resources of Monlevade and Rio Piracicaba quadrangles, Brazil, 12018
Referativnyy zhurnal, kibernetika (periodical):
excerpts, translations, 10732, 10782, 12161
Referees in bankruptcy:
prohibit from acting as trustee or receiver—
law, 10065
report, 4098
Reference books, PACAF basic bibliography, 1619
Reference data system, *see* National standard reference data system.
Refineries, *see* Petroleum refineries.
Refining, *see* Smelting.
Reflection, uniform vacuum ultraviolet reflecting coatings on large surfaces, 7873
Reflection (light), *see* Albedo.
Reflection (sound), *see* Sound.
Reflectors, reflective insulator layers separated by bonded silica beads, 6396
see also Solar reflectors.
Reflexes:
conditioned defense, electroencephalographic changes under effect of tranquilizers, USSR study, 948
responses, USSR studies, 1010
Reformatories, training needs in correctional institutions, 12197
Refraction:
experimental measurement of optical angular deviation, cause, 11065
investigation of radio wave refraction in lower layers of atmosphere at low angles of elevation, USSR study, 4612
radio meteorology, 7917
radio waves in ionosphere, measuring by signals from artificial earth satellites, USSR study, 12192
sound, by jet flow or jet temperature, 10960
see also Ametropia—Atmospheric refraction.
Refractory materials:
improved thermal insulation materials made of foamed refractory oxides, 13730
minerals, census of mineral industries, 1963, industry statistics, 12702
nitride refractories produced by alumonitrosilicothermal method, USSR study, 12191
protective coating for intricate graphite elements in high-temperature hydrogen atmosphere, 9452
refractories, current industrial reports, 2818, 12722
solar-energy device for testing, USSR study, 16434
see also names of materials.
Refractory metals, *see* Metals.
Refrigerated storage warehouse, *see* Warehouses.
Refrigeration and refrigerating machinery:
commercial forced-air precooler, prototype, 3732
equipment, current industrial reports, 5472
equipment, Federal item identification guides for supply cataloging, supplements, 2935
industrial plant equipment handbook, 17606
Refrigeration mechanics, *see* Mechanics (persons).
Refugees:
Cuban—
adjustment of status, hearings, 14430
problem, hearings, 13222, 14494
Cuban and others, assistance, appropriations, 1967—
hearings, 13014, 17568
reports, 15915, 16159, 17263
problems, investigation authorization, report, 4196
South Vietnam and Laos, problems, hearings, 1947
South Vietnam, problems, report, 7177
Vietnam, India, and Hong Kong, problems, report, 14389
Refuges, *see* Wildlife refuges—*also* names of refuges.
Refunds of taxes, *see* Tax refunds.
Refuse:
coal mine, ignition and control of burning, 9379
collection, need for reappraisal of task system assignments, Department of Sanitary Engineering, D.C. Government, GAO report, 2083
national status on control of garbage-feeding, 3240
Regan, Danny M., ecology of Gila trout in main Diamond Creek in New Mexico, 14679
Regeneration (biology):
algal systems, 8211
endocrinological research, problems, USSR study, 7585
recuperation following 55 Mev proton irradiation, 5335
Regional action planning commission, establish, facts, 16217
Regional requirements for sewer pipe in sewerage utilities, 5435
Registers:
Air Force—
departmental edition, 5309–10
document edition, 5602–3
Army—
departmental editions, 11409–410, 12666
document editions, 11601–602, 12850
Army Materiel Command, register of approved recurring reports, 111–112, 3810, 8261, 11390
Army National Guard, 13873
Army Supply and Maintenance Command, approved recurring reports, 3830
civil aircraft, United States, 8889, 16270
Coast Guard, 5538
Coast Guard Reserve, 6992
Federal register, 2956
codification guide, list of CFR sections affected, 2958
index, 2957
foreign aid, voluntary agencies, 6077, 10692
Hill-Burton projects, 3041
Justice Department and courts of United States, 10837
microform masters, 2307, 9345
Military Academy, West Point, 9355
national union catalog, register of additional locations, 9346
Naval Academy, Annapolis, 13891
Naval Reserve officers, 7905
Navy and Marine Corps officers—
departmental edition, 11152

Registers—Continued
Navy and Marine Corps officers—Con.
document edition, 10099
papers in Library of Congress—
Carnegie, Andrew, 7680
Sayre, Francis B., 7684
State Dept., biographic, 12520
Registration, emergency welfare registration and inquiry, manual, 17024
see also subjects.
Regression (statistics):
full regression equations vs. aptitude area scores in allocation of enlisted men, 8275
multiple linear regression analysis of officer career attitudes, 3790
Regression coefficients, *see* Coefficients.
Regulations, *see* Code of Federal regulations—*also* names of departments, etc., issuing regulations—*also* subjects.
Regulations and interpretative bulletins, 14962
Regulators, dual, controls 2 gases from single reference, 9474
Regulatory agencies, *see* Government offices.
Regulatory announcement, Fish and Wildlife Service, 14673
Rehabilitation:
burned watersheds in southern California, emergency revegetation, 10605
urban renewal areas, minimum property standards, 16272
Rehabilitation of criminals, Federal prisoners, facilitate rehabilitation through work release, etc., hearing, 584
Rehabilitation of the disabled:
alcoholism and vocational rehabilitation, proceedings of workshop, 15415
characteristics and trends of clients rehabilitated, 1961–65, statistics, 6691
counseling personnel, qualified, State vocational rehabilitation agencies, increase supply, guidelines for action, 6692
education, sound basis (remarks), 9202
facial disfigurement, rehabilitation problem, conference, 9758
facilities on college campuses, 14556
medical—
Public Health Service, new program, 15287
report of National Advisory Community Health Committee to Surgen General, 18061
medicine and medical practice for rehabilitation counselor, survey, 12554
psychological aspects of disability and rehabilitation, 9759
rehabilitation record (periodical), 3463
rehabilitation service series, 2622, 5216, 9760
restoring disabled people to jobs and useful living, 1856
simulator effects partial gravity conditions of patients in rehabilitation exercises, 13774
State salary ranges of positions, 10657
State vocational agencies, caseload statistics, 1965 and trends since 1961, 1528
veterans, seriously disabled, additional time for training, amend U.S. Code, report, 1827
vocational—
expansion grants to increase rehabilitation of handicapped, 11308
new development (remarks), 9203
public program, 7499
staff, training guide in case load management, 2622
staff, training guide in evaluation of vocational potential, 5216
State salary ranges, 836
training materials and aids, development and use, 9760
vocational rehabilitation act, amend—
law, 434
report, 17271
text, 12555
Rehabilitation of the disabled—Continued
Vocational Rehabilitation Administration—
advisory groups, 14068
research fellowship program, description of program and procedures for applying for predoctoral, postdoctoral, special fellowships, 1530
Reif, Joseph A., Hebrew, basic course, 8061
Reifsnyder, William E., radiant energy in relation to forests, 1609
Reilly, Harry J., heat-transfer analysis of Plum Brook reactor, 15165
Reinforced concrete, *see* Concrete.
Reinforced plastics, *see* Plastics.
Reinforcement core facilitates O-ring installation, 2397
Reinhardt, Gustav, cold consolidation of metal plus dispersoid blends for examination by electron microscopy, 12368
Reinhold, R. O., Hot Springs National Park, Ark., 11900
Reinhold, AIC 58 D, lunar chart, 87
Relampagos, Gloria A., relief, 17450
Relativity (physics):
cosmology without general relativity, 6423
Relay, *see* Satellites.
Relays, *see* Electric relays.
Releases, *see* name of office issuing releases.
Reliability (mechanical):
design goal development from small sample, 16628
electronic equipment, stress and failure rate data, military standardization handbook, 10394
electronic, research on failure free systems, final report, 2364
reliability and maintainability training handbook, 2552
reliability physics notebook, 8201
Relief work:
disaster communications, FCC rules and regulations, 2924
disaster relief act of 1965—
hearings, 1865, 14437
report, 15934
disasters—
Federal assistance, guide, 4322
message from the President, Federal funds, status and summary of allocation to States, etc., 11605
Southeast hurricane disaster relief act of 1965—
hearing, 527
law, 439
report, 554
Religions:
and ideology problems in USSR, 13586
antireligious propaganda in Kara-Kalpak ASSR, 9068
Communist exploitation of religion, hearing, 11815
Communist Party and Soviet government's attitude, 7601
religious vestige in Kirgiziya, 6113
status of church and state under Communism—
Communist China, 7220
Hungary, Czechoslavakia, German Democratic Republic, 7219
North Korea and Democratic Republic of Vietnam, 8780
Turkmen folklore, anti-religious motifs, 13510
USSR—
atheistic work in sphere of religious emotions, 937
belief, critical articles, 895
Religious activities:
District of Columbia churches, prohibit intimidation, etc., of persons officiating or attending, report, 12984
Kurdish people of USSR, translation, 14801

Religious activities—Continued
Marine Corps lay leader's handbook, 7685
overcoming religious vestiges in USSR, 17774
Religious education, anti-religious education of Russian-language students in classes 5–8 with use of folklore, 7581
Religious liberty, enforcement of 1st amendment to the constitution, report, 13164
Relishes, *see* Pickles and relishes.
Relocation, *see* Eminent domain.
Relocation (housing), *see* Redevelopment (city planning, etc.).
Rembrandt Harmens Van Rijn, etching technique, 9566
Remedial reading, *see* Reading.
Remote control:
handling of mobile nuclear systems, 5410
system couples and decouples large diameter pipes, 12317
Remote preamplifier circuit maintains stability over wide temperature range, 16646
Renal diseases, *see* Kidneys.
Rendezvous (space):
orbital rendezvous and transfer problems, computational method, 13823
Rendler, N., hole-drilling strain-gage method of measuring residual stresses, 1372
René 41, fatigue under constant- and random-amplitude loading at room and elevated temperatures, 1256
Renegotiation, *see* Government contracts.
Renegotiation act of 1951, *see* Government contracts.
Renegotiation Board:
annual report, 12496
approrpiations, 1967, hearings, 8651, 13193
regulations, 11210
renegotiation act of 1951—
as amended, 18089
extend—
law, 12819
reports, 11617, 12909, 16071
rulings, 15318
rulings and bulletins, index, 15318
Renewal Projects Administration, policies and practices followed in approving claims for noncash grant-in-aid credits, GAO review, 17710
Rennaissance, medical symbolism in books, 12395
Reno County, Kans., soil survey, 14022
Renovizing:
businessmen speak out for modernization, 8312
industrial, aids to modernization, Government services, guide, 1690
modernization of VK–100–2 LMZ turbine, results, USSR study, 2227
Rent:
minimize delinquencies on acquired properties, FHA, GAO report, 4499
supplement assistance, FHA regulations, 16273
supplement payments program, appropriations, 1966, supplemental, proposal, 5608
supplement program, public information guide and instruction handbook, 11923
Rental housing, *see* Housing.
Rental housing insurance, *see* Mortgage insurance.
Reorganization of Government activities, *see* Government reorganization plans.
Repair parts:
aircraft—
approved, and supplemental type certificates, summary, supplements, 3563
Army, grounded because of lack of required parts, GAO report, 805
census of manufactures, 1963, industry statistics, 6913
certification procedures for products and parts, Federal aviation regulations, 686, 4354, 5917, 7350, 16258
Repair parts—Continued
automotive service and repair equipment in Sweden, foreign market survey, 175
military aircraft, FAA use of available parts, GAO report, 8985
procurement of spare parts by Marine Corps, GAO report, 10619
Repair shops, equipment, Federal item identification guides for supply cataloging, supplements, 2934
Repair stations, *see* Aircraft repair stations.
Repairing:
clothing repairs, 39
repairs and utilities, Army pamphlet, 12655
single-family properties acquired through mortgage insurance programs, FHA practices, GAO review, 12005
see also subjects.
Repairmen, *see* Mechanics (persons).
Repairs, *see* Repairing.
Repairs and utilities, petroleum, oils, and lubricants (POL), 3831
Replication, *see* Variance analysis.
Reporters and reporting:
newspaper reporters, employment outlook, 9254
Turkish journalist's notes on unknown Albania, 12190
Reports:
standards of statistical presentation, Army pamphlet, 9894
to be made to Congress—
discontinue or modify requirements—
law, 448
report, 491
list, 4062
U.S. Government, popular names, catalog, 16546
see also names of departments, etc., issuing reports—*also* subjects.
Reproduction:
cattle, influence of environment, 5268
natural regeneration in old-growth redwood cuttings, 10581
rooting cuttings of browse plants, 4458
Republic of China, *see* China.
Republic of Congo, *see* Congo (Brazzaville)—Congo (Léopoldville).
Republic of Korea, *see* Korea.
Republic of Philippines, *see* Philippines.
Republic of South Africa, *see* South Africa.
Republic of Sudan, *see* Sudan.
Republic of Vietnam, *see* Vietnam.
Republican Leadership, Joint Senate-House, *see* Joint Senate-House Republican Leadership.
Republican Party:
reports—
89th Congress, 1st session, supplement, 539
89th Congress, 2d session, 17405
Republican Policy Committee, Senate, staff study, 14451
Reque, Robert R.:
Court of Customs and Patent Appeals—
customs cases adjudged, etc., 13241
patent cases adjudged, etc. 16204
Requisitions:
MILSTRIP, military standard requisitioning and issue procedures—
manual changes, 4258, 7267, 10395, 14520
supplement, 11854
Rescue equipment and appliances, Federal item identification guides for supply cataloging, supplements, 2934
Rescue operations, *see* Rescue work.
Rescue work:
firefighting and rescue operations, Army technical manual, 15515
sea rescue operations with use of buoyant Stokes litter assembly, 4856

Research:
dogs, cats, and other animals used for research, etc., regulate transportation, sale, and handling—
hearings, 7108, 13200
law, 15726
reports, 8604, 8611, 11775, 13008
education, research and development and United States balance of payments (remarks), 16885
external research lists, 2576, 11247–251, 12522
facilities construction, Public Health Service grants and awards, 6491
Federal expenditures for research and related activities abroad, cutting to plug dollar drain, report, 8621
Federal foreign spending and dollar drain, hearings, 7145
Federal programs, conflicts with goals for education—
academic communities, etc., responses to inquiry, print additional copies, reports, 10200, 10206, 17473
hearings, print additional copies, report, 10207
Federal research and development programs, decision making process—
hearings, 5694
report, 12920
Federal research and development reports, Government-wide index, 3025, 12759
fellowship program, Vocational Rehabilitation Administration, description of program and procedures for applying for predoctoral, postdoctoral, special fellowships, 1530
funds, State agricultural experiment stations and other State institutions, 5836
invitation to industrial corporations and professional organizations to join in research, 6475
naval, reviews (periodical), 3248
research and development Federally financed, investigation and study, authorization, report, 4182
research and development, Government reports, abstracts, 3630, 12760
Government-wide indexes, 3025, 12759
research, development and test facilities, Navy design manual, changes, 1569
research profiles, 1312–19, 2461, 5034, 15301, 16809, 18072–74
review of selected Government research and development reports, 1295–96, 6476, 7918, 11093–95, 15208
symposium, 16810
universities, Government supported, administration, 11449
USSR, new academic city in Siberia is focus, 16458
womanpower, shortage or surplus? assessment in Boston, conference report, 16912
see also Military research—Scientific research—*also* names of departments, etc., doing research—*also* subjects.

Research analysts:
operations, examination announcements, 6977, 12749
social insurance, examination announcements, 6962, 10001

Research and development reports:
Atomic Energy Commission, 142–161, 1674–85, 3846–53, 5382–5417, 6851–68, 8276–97, 9917–28, 11411–440, 12668–685, 14236–237, 15526–539, 16970–976
Coal Research Office, 312

Research and statistics legislative notes, 1469–72

Research and statistics notes, 2565–67, 5145, 6609–11, 8027, 9657–58, 11230, 12513, 15331, 18101
index, 9653

Research Conference in Pulmonary Diseases, transations, 14065

Research institutes, Hungary, training of specialists and skilled workers, 4669

Research laboratories, orbiting, medical aspects, Space Medicine Advisory Group study, 15079
see also names of laboratories or places where located.

Research Management Advisory Panel, report, 13060

Research notes, Forest Service, 788–792, 2058–73, 4439–60, 5975–89, 8954–67, 10563–589, 13357–369, 14699–711, 16323–335, 17683–696

Research papers, Forest Service, 793–801, 2074–78, 4461–76, 5990–97, 7461–62, 8968–77, 10590–610, 11994, 13370–373, 14712–716, 16336–339, 17697–704

Research parks, research park, is it for your community? 7273

Research reports:
Arms Control and Disarmament Agency, 8227
available from Clearinghouse for Federal Scientific and Technical Information, 3529
Cold Regions Research and Engineering Laboratory, 116, 1635–37, 3815–16, 5344, 6830–33, 8233–43, 9887–89, 11395–396, 12649, 14210, 15505–510, 16956
Fish and Wildlife Service, 17676
Lake Survey, 9339–40
price lists, selective bibliography of Government reports, 3989
Reclamation Bureau, 8010, 16817, 18088
Social Security Administration, 6612
index, 9653
Waterways Experiment Station, 10442

Reserpine, therapy in cerebral edema, 3795

Reservations, *see* names of reservations.

Reserve components of Armed Forces:
construction appropriations, 1967 reports, 15908, 17311, 17513
enlisted members, credit inactive service in computing retired pay, reports, 11627, 15858
facilities, construction authorization, 1966, report, 17199
facilities, construction authorization, 1967—
hearings, 11644, 11789
law, 15745
reports, 10306, 12967, 15881
Judge Advocate legal service, Army, pamphlet, reserve component information, 124
physicians' appointment and residency consideration program, information bulletin, 8812
reemployment rights, protect—
hearing, 5683
report, 5673
Reserve forces bill of rights and vitalization act—
hearings, 15962
report, 17225
retired pay, limit revocation—
law, 17139
reports, 12936, 17511
see also Nation l Guard.

Reserve Officers' Training Corps, Army:
scholarship program, Army ROTC, investment for your future, 3824
selection of officer candidates, research, 15525

Reservoirs:
Columbia River basin, storage in major power reservoirs, monthly report, 3543
fish-rice farming, 4402
oil, partly depleted, repressured with gas, material balance equation, derivation and application, 9383

Reservoirs—Continued
outlet works, Shelbyville Dam, Kaskaskia River, Ill., hydraulic model investigation, 11897
Pacific Northwest, month-end storage in major reservoirs, 3543
sound suppressor system, liquid behavior, 4921
Residence and migration of college students, fall 1963, state and regional data, 8851
Residences, *see* Houses.
Resident physicians, *see* Physicians.
Resident youth worker for duty in Job Corps conservation centers, 15634
Residential construction, *see* Building.
Resins:
chelating, reusable, concentrate metal ions from highly dilute solutions, 17909
epoxide, plastic physical properties, effects of curing agent structure, 2499
epoxy-coated containers, opened by wire band, 9481
filament-wound composites, microvoids, origin and removal, 2494
glass-resin composites, surface chemical aspects, 2494
infrared spectra, materials developed since 1954, 16766
initiation of failure mechanisms in glass-resin composites, 15039
materials, U.S. production and sales, preliminary report, 3337
silicone, phenolic, and epoxy base heat-shield materials, evaluation, 17914
systems, thermoplastic and phenolic, cross-linking, thermal and mechanical properties, bibliography, 10396
white pine—
crystallization induced by white pine cone beetle, 4442
insect induced crystallization, 4441
see also Naval stores—Oleoresins.
Resistance, *see* Electric resistance.
Resistance thermometers, *see* Thermometers.
Resistors, *see* Electric resistors.
Resolutions:
digest, 2855
history, 2782
see also Law—Senate bills.
Resolving power, radio telescopes and radio interferometers, conditions affecting, USSR study, 1036
Resonance:
charge exchange cross sections in nitrogen and argon, measurements, 4980
concept in systems of linear and nonlinear ordinary differential equations, 1282
multicolor stroboscope pinpoints resonances in vibrating components, 11017
see also Magnetic resonance—Nuclear magnetic resonance.
Resonators, microwave cavity, open-ended, use for liquid-hydrogen density measurements, 17930
Resort areas, climatic summaries, 5898–99, 10447, 11900
Resource bulletins, Forest Service, 2079–80, 4477–80, 5998–99, 7463, 10611–612, 11995–996, 14717–720
Resource publication (series), 2045, 7439–40, 10537, 11977, 14674, 16311–213, 17677
Resource status reports, Sports Fisheries and Wildlife Bureau, 765–766
Resources, *see* Natural resources.
Resources survey for Latin American countries, 5155
Respiration:
cardiovascular responses of mammals to apnea, 8214
developments, USSR study, 963
effect of gas density on work of breathing in man, 8216
external, function during circulatory insufficiency, USSR study, 985
gas masks for respiratory protection against amines, 13681
Respiration—Continued
measurement, programed notebook for nursing assistants, 13995
neonatal adaptation, conference, proceedings, 18062
oxygen-helium mixtures at low atmospheric pressures, verbal communication intelligibility, 8205
peculiarities of gas exchange studies under rarefied atmospheric conditions, USSR study, 1023
physiology and pathology, USSR 1964 scientific research, 6119
water loss, effects of resuced barometric pressure, 6814
Respiratory equipment, *see* Breathing apparatus.
Respiratory organs, chronic respiratory disease, growing menace, 12461
Respirometers, plant respirometer enables high resolution of oxygen consumption rates, 16629
Responses (psychology):
human response to sustained acceleration, 10978
reflex, USSR studies, 1010
Rest:
bedrest effect on physiological function, 9390
effects of—
moderate physical exercise during 4 weeks of bed rest on circulatory functions in man, 8204
9-alphafluorohydrocortisone on dehydration due to prolonged bed rest, 8206
lower body negative pressure influence on level of hydration during bedrest, 9863
recumbency and activity, effects on orthostatic tolerance, 11378
Restaurants, lunchrooms, etc.:
bibliography, 1459
food service equipment, commercial & institutional, export market, 12776
meat purveyors, improved methods and facilities for custom service houses, 12608
occupations, employment outlook, 9311
Restivo, Giuseppina, *see* Bellisia, Josephine A.
Reston, Va., dedication (remarks), 10665
Restoration, restorative processes and hormones, Soviet book, introduction, 10759
Restore man, national health goal, 18075
Restraint apparatus:
hinged bellows, high load capacity, 1217
universal bellows joint restraint permits angular and offset movement, 2390
Resuscitation, USSR clinical study, 7628
Retail credit, and collections, bibliography, 15324
Retail prices, *see* Prices.
Retail stores, *see* Stores.
Retail trade:
Alaska, 1963, special census report, 6886
census of business, 1963—
area statistics, 185–192, 3875–76, 5438, 6883, 9946–49
advance reports, 2737
legal form of organization, 195
major retail centers, area statistics, 184, 1698
single units and multiunits, 194
subject reports, 193–196, 8325
current retail trade reports, 2820, 14279
employee earnings, summary release, 14984
employment of full-time students at special minimum wages, regulations, under fair labor standards act, 14072
merchandising and promotion, bibliography, 12504
merchant and consumer, partners in prosperity (address), 5090
minimum wage and maximum hours, study, 5224

Retail trade—Continued
Puerto Rico, minimum wage rates for newly covered employment, data, 5217, 5225
retailing, bibliography, 11220
sales, 14279
starting and managing small retail drugstore, 9645
see also names of commodities and industries.
Retainers, *see* Ball-bearing retainers.
Retaining walls, ice-soil retaining structures, calculations, 11891
Retina:
eclipse burns in humans and laboratory threshold measurements in rabbits, 12634
electrophysiological investigations, USSR study, 14887
perception of red and green at various retinal positions, effect of luminance, 13662
whole, removal technic, 12644
Retired officers, etc.:
Air Force guide for retired personnel, 5308
relief, claims for increased retired pay—
law, 8471
report, 1923
see also Armed Forces.
Retired pay, *see* Pensions.
Retirement:
early retirement, provisions of State and local government systems, 6610
Federal credit for service with North Carolina, hearing, 11677
how to plan for successful and happy retirement, questions and answers, 1570
Marine Corps, guide, 17827
old-age beneficiaries, experience, 8022
old-age benefits for workers retiring before 65, 1470
public employee systems, benefits and beneficiaries, 9657
self-employed individuals, deduction for taxable year 1964, Treasury Dept. report, 14445
social security—
benefits, you don't have to retire completely to get them, 15327
rights and responsibilities of recipients, 2568
State and local governments employee-retirement systems, 1964–65, finances, 3934
see also Armed Forces—Civil service pensions—Judges—Pensions—Railroad employees.
Retorts:
brazing retort manifold design concept may minimize air contamination, etc., 15101
gas-combustion oil-shale retorting process, Mines Bureau development, 10908
Retractors, compact, protects cabling loops, 4855
Reukema, Donald L., seasonal progress of radial growth of Douglas-fir, Western redcedar, and red alder, 4472
Reusable chelating resins, concentrate metal ions from highly dilute solutions, 17909
Reuss, Henry S., off dead center, some proposals to strengthen free world economic cooperation, 1793
Reuss, M. L., nonreciprocal circular polarizer, 1361
Revegetation, *see* Forage plants.
Revenue:
carload waybill statistics, 1963—
agricultural products, 7532, 7535
animals and products, 6081
forest products, 6083
manufactures, etc., 7531
mileage block progressions by commodity groups and classes, 10695
Revenue—Continued
carload waybill statistics, 1963—con.
mine products, 7533, 7536
State-to-State distribution, all commodities, 6080
territorial distribution, traffic and revenue by commodity classes, 6084
District of Columbia, provide, hearings, 1936, 7131
see also names of articles, etc., from which revenue is derived.
Revenue agent, career in professional accounting, 4568
Revenue officer, 4569
Revenues and classes of post offices, 2511
Revised statutes of U.S., *see* Codes of law.
Revivification:
reanimatology, excerpts from Russian-language book, 10710
surgery, reanimation in, USSR study, 4657
Revolution, American, Bicentennial Commission, *see* American Revolution Bicentennial Commission.
Revolutions, social, in Vietnam, Americans as quiet warriors supporting, 10691, 11253
Revolving funds:
authorizing funds, 578
Indian loan fund, amend law, report, 16125
Indian loans to procure assistance before Indian Claims Commission, increase authorization—
law, 17107
reports, 14393, 17483
legislation authorizing appropriations and establishing revolving funds, 1886
Small Business Administration—
increase, law, 435
separate, establish, hearings, 4211
Rewards (prizes, etc.):
acceptance of Business Speaks award on behalf of President Johnson (remarks), 1521
AEC citation for outstanding service to Gale, Fred E. (remarks), 168
Alfred P. Sloan radio-TV awards for highway safety, presentation (remarks), 10036
awards to Croation science workers explained by committee, 10806
Bulgarian inventors and efficiency experts, awards, 14951
citation of appreciation to James G. Patton (remarks), 9836
Commerce Dept., honor awards program, 5546
Department of Defense incentive awards program, 9882
Enrico Fermi award, 1966 (remarks), 15545
Hungarian Academy of Sciences—
academic awards and degrees, directive, 16481
awards, 6169
Lenin prizes, 1966—
science and technology, recipients, 9172
works entered in competition, 1064
Mendeleyev Society, 1965 chemistry prizes, winners, USSR, 14930
national community fallout shelter design competition awards, 5514
National Guard Association trophy, Pershing trophy, National Guard (State) trophy, announcement of winners, 12389
President's E award for export excellence—
flag-raising ceremony—
Douglas Aircraft Company, Inc. (remarks), 8434
West Penn Power Co. (remarks), 352

Rewards (prizes, etc.)—Continued
President's E award for export excellence—Continued
presentation to—
American Creosote Works Inc. (remarks), 12787
Bell & Howell Corp. (remarks), 10034
Clinton Engines Corp. (remarks), 10035
Cornelius Co. (remarks), 10043
Honolulu Iron Works (remarks), 12793
Ling-Temco-Vought, Inc. (remarks), 12791
Oshkosh Motor Truck, Inc. (remarks), 11525
Paul Masson Vineyards, 327
USDA's cost reduction awards ceremony (remarks), 9837
Reynolds, Hudson G.:
slash cleanup in ponderosa pine forest affects use by deer and cattle, 13366
use of, ponderosa pine forest in Arizona by Arizona by elk, deer, and cattle, 13368
use of ponderosa pine forest in Arizona by deer, elk, and cattle, 13365
Reynolds, R. R., 1965 harvest, Crossett farm forestry forties, 10589
Reynolds, Thaine W., free-molecule flow with surface diffusion through cylindrical tubes, 4962
Rheinfurth, Mario H., new approach to explanation of flutter mechanism, 4906
Rhenium:
alloys—
dilute tungsten, mechanical properties, 16654
USSR study, 6222
layers, thick and reguline, electrolytic deposition, USSR study, 929
minerals yearbook chapter, 15032
seamless tungsten-rhenium tubing, fabrication, 11428
tensile behavior of tungsten crystals with rhenium in dilute solid solution, 4937
Rheogoniometers:
duty-free entry for—
Case Institutes of Technology, 17185
Tufts University 17187
duty-free entry report, 17332
duty free treatment, reports, 16130, 17332
Weissenberg, duty-free entry, 380, 542
Rheumatic fever:
factors influencing prophylaxis behavior, 2527
National Heart Institute, review of research grants, 18076
selected references, 18070
Rheumatic heart disease, *see* Heart disease.
Rheumatism:
arthritis and rheumatic diseases abstracts, 2693
health information series, 2529
see also Arthritis.
Rheumatoid arthritis, adults in U.S., 15308
Rhizobium, relation to alfalfa sickness in eastern Washington, 6709
Rhoads, F. J., modal interference of very-low-frequency radio waves, 6554
Rhode Island:
bus taxation proration compact, consent of Congress, law, 414
census of manufactures, 1963, manufacturing plants, location by county, industry, and employment size, 14254
county business patterns, 14266
electric rate book, 720
ground water availability, upper Pawcatuck River basin, 17730
landings, fish and shellfish, 3480
1965 annual summary, 8935–36
life tables, 18047
medical assistance for the aged, under social security act, 11905
Rhode Island—Continued
population, special census, 3931
postal map, 13934
Southern Rhode Island Soil and Water Conservation District, pond provides campsite and fishing (colored poster), 9699
women, equal pay, 1965 laws, 5240
Rhodes, Cecil A., relief, 15803
Rhodesia:
mineral industry, minerals yearbook chapter, 7702
southern—
background notes, 16853
economy, basic data, 342
Rhodium:
disposal from national stockpile—
hearing, 10325
law, 10071
reports, 8586, 8754
Rhododendrons, planting and care, 5291
Rhynacionia buoliana, *see* European pine shoot moths.
Riach, Norman M., relief, 1817
Ribonucleoproteins, *see* Nucleoproteins.
Ribosomes, *see* Cells.
Rice, Charles E., friction factors for helical corrugated pipe, 8127
Rice, Dorothy P., estimating cost of illness, 13966
Rice, Edward A.:
early performance decrement in primates following pulsed ionizing radiation, 1622
oxygen concentration, temperature, and viscosity determinations, polarographic technic, 5334
Rice, Gabrielle P., foreign gold & exchange reserves, current trends in international liquidity, 10416
Rice, J. Wade:
handicrafts and home businesses, 12501
recordkeeping systems, small store and service trade, 1458, 9643
Rice, Mabel C., residence and migration of college students, fall of 1963, State and regional data, 8851
Rice, P. L., transmission loss predictions for tropospheric communication circuits, 13861–862
Rice, T. R., annual report of Bureau of Commercial Fisheries Radiobiological Laboratory, Beaufort, N.C., 2036
Rice, William L.R.:
nuclear fuels and materials development, 6861
summaries of fuels and materials development programs, materials research under reactor program, 5407
Rice:
ASCS program, 6736
California stocks and movement report, 2725
fields, effects on ground mobility, 5891
fish-farming, reservoirs, 4402
foreign agriculture circulars, 2987
foreign and domestic, quality evaluation studies, 8169
futures trading and open contracts, 3013
in United States, varieties and production, 9811
market news, 3481
supplement, rough rice receipts, 3482
1965 market summary, 591
situation, 4293
southern, inspected for export, 3523
stocks, rough and milled, 3483
weeds and their control in rice production, 5283
Rice Lake National Wildlife Refuge, general information, 14661
Rich, Leslie, it takes courage, 16235
Richard, H. L., Apollo infrared acquisition and tracking system, 16649
Richards, James K., Bilby steel tower for triangulation, 5529

Richards, Whitman, color mixture functions at low luminance levels, 6281
Richardson, Norman R., Project Fire instrumentation, 17918
Richmond, G. B., naturalization of Java podocarpus in Hawaii rain forest, 2070
Richmond, Joseph C., procedures for precise determination of thermal radiation properties, 6478
Richmond, M. S., analysis of uranium concentrates at NBS, 1293
Richmond, Va., area wage survey, 6266
Richter, Donald H.:
  petrography of lavas of 1959–60 eruption of Kilauea Volcano, Hawaii, 4624
  petrology of Kilauea Iki lava lake, Hawaii, 12026
Richter, Henry L., space measurements survey, instruments and spacecraft, 13727
Rickenbacker, Joseph E., losses in transporting and handling grain by selected grain marketing cooperatives, 14143
Rickover, Hyman G., testimony, 507
Ridd, Merrill K., area-oriented multiple use analysis, 8971
Riddle of ball lightning, 13540
Ridgely, Kazuyo W., relief, 1814
Rifle Association, National, *see* National Rifle Association.
Rifle company, Marine Corps, function, etc., Fleet Marine Force manual, 16548
Rifle practice, *see* Target practice.
Rifles, NGB indoor matches, postal, announcement of winners, pamphlet, 17951
Riga, Latvian SSSR, 2d symposium on extremum problems, proceedings, 13528
Rigby, Malcolm, NODC quarterly accessions, computer produced indexes, 13892
Rigging:
  ENTAC missile system, airdrop operations, 16965
  scoop-type loader, airdrop, 11407
  water purification unit, Erdlator trailer, airdrop operations, 8268
  see also Masts and rigging.
Right of privacy, *see* Privacy.
Right-of-way, *see* Roads and highways.
Right-to-work, and union security, selected readings and references, list, 2286
Right-to-work laws, *see* Industrial relations.
Rights of persons:
  ombudsman, Swedish official, hearing, 10354
  rights and responsibilities of recipients of—
    social security retirement or survivor benefits, 2568
    special social security benefits, 14019
Rights of privacy, *see* Privacy.
Rights-of-way, *see* Roads and highways.
Rights of women, *see* Women.
Rijn, Rembrandt Harmens van, *see* Rembrandt Harmens Van Rijn.
Riley, Donald R.:
  effect of target angular oscillations on Gemini-Agena docking, 9528
  Gemini-Agena docking, 2414
Riley, Harold L., mineral industry of Kentucky, 1128
Rim, Kwan:
  derivation of mapping functions for star-shaped regions, supplement, 7721
  extension of plane strain analysis, 17878
Rinderpest, importation of meats and animals that have transited infected countries, opinion of Attorney General, 9191
Ring connectors, *see* Connectors (structural).
Ring counters:
  circuit switches multiphase motor direction of rotation, 9453
  low power, to drive high-level loads, 9457
Ring valve responds to differential pressure changes, 4859
Ringel, S., human factors research in command information processing systems, 16967
Rings:
  back-up ring for O-rings, disclosures on, 7921
  flexible plastic ring assembly makes durable shaft seal, 2386
  inflatable O-ring seal would ease closing of hatch cover plate, 15115
  large diameter, differential expansion provides pressure for diffusion bonding, 12311
  metal ring seal prevents gas leakage, 17896
  O-ring tube fittings form leakproof seal in hydraulic systems, 4857
  O-rings with Mylar back-up provide high-pressure cryogenic seal, 12319
  pressure seal ring may be effective over wide temperature range, 11005
  reinforcement core facilitates O-ring installation, 2397
  sensing, angular acceleration measured by deflection, 9456
  thin circular, nonlinear flexural vibrations, 2438
Ringworm, general information, 16796
Rio Branco, *see* Arcoverde, Brazil.
Rio Grande and Valley:
  citrus prices and market structure, 8148
  lower, salinity problem, solution—
    law, 15755
    reports, 12961, 15876, 16102
  water supply outlook and snow surveys, 3688
Rio Muni, Equatorial Guinea background notes, 16847
Rio Piracicaba quadrangle, Brazil, geology and mineral resources, 12018
Ripley, Josephine, health and hygiene, bibliography, 6804
Ripley, S. Dillon, birds of Socotra, etc., 18096
Riprap, rock, hydraulic design, 10439
Ristow, Walter W., facsimiles of rare historical maps, list of reproductions for sale by various publishers and distributors, 17822
Rites and ceremonies, ritualism in Islam and its social essence, USSR study, 12123
Rittenhouse, John B., space materials handbook, 6355
Rivera, Joseph, dietary intakes and body burdens of cesium-137, 2523
Rivers:
  Alaska, southeastern stream catalog—
    regulatory district 9, 4426
    regulatory districts 5, 6, 7, and 8, 2047
  basis plans, additional authorization, 1966 report, 1910
  basins, clean rivers restoration act of 1966, pollution control and abatement, program—
    analysis of bill, 8679
    hearings, 10371, 13058
    reports, 13150, 15909, 15925, 17324
  central Asia, origins, routes, etc., USSR study, 1061
  closed-basin investigations (series), 9018
  Communist China, 4636
  daily river and rainfall bulletins—
    Shreveport, La., area, 2825
    Vicksburg, Miss., area, 2826, 2833
  daily stages, 1963, 16900
  daily weather and river bulletins—
    Albuquerque, N. Mex., area, 2830
    Houston, Tex., area, 2831
    Little Rock, Ark., area, 2832
    Memphis, Tenn., area, 2833
    Montgomery, Ala., area, 2834
    New Orleans, La., area, 2835
    Sacramento, Calif., area, 2836

Rivers—Continued
flood control and multi-purpose projects, public works authorizations—
hearings, 17597
law, 400
reports, 17276, 17533
print additional copies, report, 10197, 17470
hydrology of tidal streams (series), 10647, 13415
low-flow characteristics of streams in Mississippi embayment—
northern Arkansas and Missouri, 6032
southern Arkansas, northern Louisiana and northeastern Texas, 10641
meanders, theory of minimum variance, 6031
mountain, central Asia, forecasting runoff, USSR study, 6216
natural channels, stage-discharge relations established by step-backwater analysis, evaluation of accuracy, 6043
physiographic and hydraulic studies (series), 2103, 6031, 12021, 17718
prefabricated flume for gaging ephemeral streams, 4451
river hydraulics (series), 6043, 17731
rules concerning sailing vessels, etc.—
hearing, 10335
report, 17313
runoff, USSR study, 7626
salmon spawning stream, effects of log jams and flooding, 13358
stream quality in Appalachia as related to coal-mine drainage, 7481
streamflow, development of procedure for estimating effects of land and watershed treatment, 8171
streamflow records, San Dimas Experimental Forest, 4448
sustained winter streamflow from groundmelt, 8957
water quality characteristics of New Jersey streams, 12031
wedge-shaped aquifers drained by streams, measurement of hydraulic diffusivity, 13408
see also names of rivers, or places where located.
Riverside, Calif.—
area wage survey, metropolitan area, 6258
commodity transportation survey, production area series, 8347
Road machinery, maintenance equipment, Federal item identification guides for supply cataloging, supplements, 2932
Road signs, *see* Signs (road).
Roads and highways:
aerial photography in unified information system, 11201
Alaska highways, report on study, 10367, 11828
beautification and safety, Federal-State coordination (remarks), 14328
better highways and beauty are not incongruous (remarks), 359
Capital Beltway, Interstate route 495, state construction results in problems, etc., Bureau of Public Roads, Department of Commerce, GAO report, 2086
code of Federal regulations, 7395
complex role of highways in urban scene (remarks), 12492
construction in muskeg areas, summary and compilation of current practice, 3819
District of Columbia—
borrowing authority for construction, increase, hearings, 1936
highway program, hearings, 7131
engineering economy, syllabus for short unit, 11206
Federal-aid highway act of 1966—
hearings, 10262, 11831
law, 15749
proposed legislation, analysis, 7168
reports, 12949, 12974, 13169
section-by-section analysis, 14441
Roads and highways—Continued
Federal aid highway program—
America's lifelines, 11202
BPR need for specific guidelines regarding Federal participation in costs of standard-type plans, GAO report, 7470
toll facilities relationship, hearings, 14440
Federal aid highways—
junkyards, control, report, 546
labor and material requirements for construction, 4715
landscaping and scenic enhancement, report, 546
outdoor advertising, control, report, 546
Federal aid programs, *see* below, Interstate system.
Federal laws, regulations, etc., 11203
freeways to urban development, 16813
Haines Road, winter maintenance, agreement with Canada, 5173
highway and motor vehicle safety (address), 17053
highway beautification act (remarks), 4019
highway beautification program—
costs, 1967 estimate, instruction manual, 11204
report, 546
highway construction usage factors for aggregates, 2546
highway improvements, programing and scheduling, 9637
highway planning notes, 3040
highway planning technical report, 9637
highway safety (remarks), 10036
highway safety act of 1966—
hearings, 10264, 10368
law, 15742
reports, 12946, 12993, 16078
highway safety action program, 8007
police traffic supervision, brief outline, 11205
highway safety program (remarks), 1776
highway transportation (remarks), 8441
highway trust fund, financial conditions and operations, 1965 report, 7062
highways, changing concept (address), 16814
highways to beauty, 8008
improved highway engineering productivity, conference, proceedings, 6591, 15314
interstate system, map, 1450
Louisiana, construction practices, report, 15948
military installations, geometric design, etc., Army technical manual, 8263
needs of future (remarks), 15316
1965 highway progress, report, 5131
Public Roads Bureau labor compliance manual, amendment, 15315
public roads (periodical), 3430
publications, price list, 6568
rights-of-way—
acquisition, bibliography, supplement, 15313
traverse and area computation, electronic computer program, 5126
Utah, acquisition activities, Public Roads Bureau, GAO report, 13384
safety, interagency liaison conferences, report, 6592
safety program (remarks), 353
standard alphabets for highway signs, reference guide, 16815
statistics, 9639
steep road fills, controlling soil movement, 14699
user act of 1966, proposed legislation, technical explanation, 7168
work injuries and rates in street and highway department industry, 2295
see also names of roads or highways.
Roadside stand, 15455

Roanoke Island Memorial Commission, create, report, 11741
Roasting (minerals):
magnetic roasting of iron ores with ferrous scrap, 7716
reduction roasting-acid solution techniques in processing manganiferous ores, 10918
Robb, Preston, epilepsy, review of basic and clinical research, 6489
Robbins, David:
disclosures on magnetic tape handler, focus detector, etc., 7921
disclosures on transrotor engine, resistance thermometer, etc., 17941
Robbins, Leslie F.:
business management, 1965, survey of chief business officers of colleges and universities, 17619
college and university facilities survey, 1974
new construction and rehabilitation on college campuses, 14556
Robbins, W. M., jr.:
electromagnetic forces on space structures, 10945
preliminary design studies for very large orbiting radiotelescope, 15070
Robert A. Taft Sanitary Engineering Center:
Analytical Reference Service, training program, freshwater plankton study, 2528
publications, water supply and pollution control, 5117
research at SEC, 2538
Roberts, Albert E.:
geology and coal resources of Livingston coal field, Gallatin and Park Counties, Mont., 12025
stratigraphy of Madison group near Livingston, Mont., and discussion of karst and solution-breccia features, 4522
Roberts, B. W., superconductive materials and some of their properties, 17945
Roberts, Charles T., guide for implementing handbook 3, property accounting for school systems, 8842
Roberts, Eugene, biochemical studies on acute hydrazine toxicity in mice, 12630
Roberts, James R., slosh design handbook 1, 9395
Roberts, Jean:
prevalence of osteo arthritis, 15307
weight by height and age of adults, 11199
Roberts, Russell B., communities in action, 8821
Roberts, Travis, annual report for 1965, Cooperative Fishery Units, Division of Fishery Services, 16311
Roberts radio current meter manual, 6981
Robertson, Eugene C., properties of thermistors used in geothermal investigations, 9009
Robertson, Harry F., mineral industry of Puerto Rico, Panama Canal Zone, Virgin Islands, Pacific Island possessions, and Trust Territory of Pacific Islands, 17845
Robertson, J. L.:
remarks—
May 4, 1966, 8927
May 17, 1966, 10509
Robertson, Roger L., National Institute of Mental Health training grant program, fiscal year 1964, statistical sourcebook, 2459
Robinson, James W., measurement and interpretation of plasma properties to 100 kilobars of pressure, 9420
Robinson, John W., restaurants and catering, 1459
Roby, Ill., railroad accident, 12075
Rochester, N.Y.:
commodity transportation survey, production area series, 9954
principal electric facilities, map, 7374
Rochman, Joan E., trends in graduate enrollment and Ph.D. output in scientific fields, 13992
Rock Creek Park, general information, 6516
Rock drilling, ground stress components from measurements of diametral deformation of drill hole, 4801
Rock Island, Ill., area wage survey, 4725
Rock Island Dam, fish passage report, 1965 report, 17679
Rock phosphates:
chemical processing of Florida phosphate rock slime, 17853
minerals yearbook chapter, 17850
Rockers, James J., soil survey of Reno County, Kans., 14022
Rocket fuel, *see* Fuel.
Rocket motor cases, Thiokol Chemical Corporation SL–1 motor case hydrotest failure, 4894
Rocket propellants, *see* Propellants.
Rocketeers are always in combat readiness, USSR, 6158
Rockets:
ablative materials as nozzle sections—
liquid-oxygen-gaseous-hydrogen rocket engine, 9510
storable-propellant rocket engine, 9500
Aerobee 150 structural and areodynamic pitch coupling, 17910
Aerobee sounding, 1959–63, launchings, 4983
blast resistant materials, report, 10440
booster recovery by use of hot-air balloon, 16705
combustion instability, tangential velocity effects, 9531
combustors, simulated, acoustic decay coefficients, 9538
compressed-air model investigation of solid rocket overpressures due to interference from aft-end ignition rocket, 13840
engine blast tests on expedient surfacing materials, 10440
engine exhaust, probe samples components, 2399
engine, M–1 hydrogen-oxygen—
oxidizer pump-driven turbine, scale model, cold air performance evaluation, 7881
performance evaluation of turbine, 6457
exhaust analysis, use of ultraviolet photographic pyrometer, 6408
exhaust plume at low altitude, aerodynamic model, 16762
field artillery battalion Little John, Army Dept. field manual, 12651
high altitude underexpanded jet exhaust impingement studies, cold gas technique, 1242
high-thrust, used for manned Mars landing mission, 4929
hydrogen-oxygen engines, 20,000-pound, propellant injection velocity, effect on screech, 7884
KIWI B nuclear rocket, acoustical study, 4825
lightweight external insulation system for liquid-hydrogen tanks of boost vehicles, aerodynamic heating tests, 7838
liquid-bipropellant engines using propellants with different vaporization rates, analysis of chugging, errata, 12333
M–1 engine, starting characteristics, investigation using analog computer, 2422
Marc36A1, 1–KS–75 spin motor for Scout vehicles, design, test, and documentation, 4816
motor, solid propellant combusion instability, use of one-dimensional model for determining, 9533
n-heptane vaporization in unstable combustor with traveling transverse oscillations, 9537

Rockets—Continued
noise, contribution of combustion noise to overall exhaust jet noise, 9432
nose-mounted rotating solid-propellant control system, 7855
nozzle materials, performance with solid propellants, 9541
nozzles—
catalysis of hydrogen-atom recombination, 6341
vortex flow and erosion injection for thrust vector control due to warm-gas, 4971
nuclear—
radiant heating of seeded gas in coaxial-flow gaseous reactor, 4943
wheel-flow gaseous-core reactor concept, 1244
nuclear propulsion, gaseous-fueled cavity reactors, criticality calculations, etc., 13707
nuclear rocket war, essence, USSR study, 1040
performance of Apollo storable propellants in engines with large area ratio nozzles, 15173
pioneers of rocket technology, USSR, 1286
powerful new rockets developed for space stations, USSR study, 2191
propellant feed systems, distributed parameter analysis of pressure and flow disturbances, 13833
recoverable booster, landings and slideouts, investigation, 15141
rotating-solid-propellant control system, application to attitude-control of space-vehicle upper stage, errata, 15132
Saturn class boosters, data requirements for in-flight synthesis and multiple blender studies, 15055
Saturn IB/Apollo upper stage, supersonic/hypersonic aerodynamic investigation, 4819
Saturn illustrated chronology, 2450
Saturn S–1C booster, thermal and pressure environments in base from Mach 0.1 to 3.5, wind-tunnel investigation, 16678
Saturn sound suppressor system—
interaction of structure and liquid, 4926
liquid behavior in reservoir, 4921
Scout motor performance analysis and prediction study, 2360
Scout vehicle 131–R (S.E.V., systems evaluation vehicle), electrostatic measurement experiment, 10946
single-degree-of-freedom roll equation with time-dependent coefficients, solving, 4917
small-animal payload, integration with sounding rocket, 15081
sounding data, analysis of processes in stratosphere, 2444
struggle against, anti-rocket defense, etc., USSR study, 2187
temperature control unit for sounding rocket applications, 16655
thick wedge fins with sweptback leading and trailing edges, static aerodynamic characteristics, 4930
Trailblazer I, payload reentry events, photometric analysis of spectrograms, 9520
Trailblazer IIa9° half-angle blunt nose cone, radar cross section and optical radiation during hypersonic reentry, 4956
transfer function approximations for highly coupled elastic boosters with fuel slosh, 9433
unmanned, Federal aviation regulations, 10463
USSR, first 3 space rockets, 2152
Rockfalls, Little Tahoma Peak, 2092
Rockford, Ill., area wage survey, metropolitan area, 13601
Rocks:
adjacent to Cretaceous-Tertiary boundary western San Juan Basin, N. Mex., history of nomenclature and stratigraphy, 12024
basalt, slowly cooling, petrologic and thermometric study of semienclosed body, 12026
basaltic magma, fractional crystallization, etc., chronological changes in lava composition during major volcanic eruption, study, 7488
compressive strength predictions from other rock properties, 2351
disk subjected to peripheral thermal shock, stress analysis, 15024
evaluation of explosion of charges with air spaces in rock, USSR study, 6162
felsic, calibrated X-ray diffraction patterns, rapid modal analysis, 4511
formation, in-situ measurement in vein-type deep mine, 9370
inelastic deformation of rock under hemispherical drill bit, 16582
Mesozoic—
in Baboquivari Mountains, Papago Indian Reservation, Ariz., 2090
northern Alaska, micropaleontology, 12017
petrofabric analysis of overgrowths on quartz crystals in jasperoid, 9013
petrography of lavas of 1959–60 eruption of Kilauea Volcano, Hawaii, 4524
petrology of Kilauea Iki lava lake, Hawaii, 12026
presplitting in presence of static stress field, 16586
riprap, hydraulic design, 10439
samples from laboratory size to mine pillars, sonic velocity measurements, piezoelectric pulsing equipment for, 13694
streak camera method for measuring dynamic equation of state properties, 9386
sulfate and sulfide sulfur in, determination, 12012
see also Bedrock—Breccia—Greenstone—Sedimentary rocks.
Rocky Mountain Forest and Range Experiment Station, publications, list, 3156
Rocky Mountain National Park, general information, 7948
Rocky Mountain States:
growth patterns in employment by county, 12696
manufacturing plants, location by county, industry, and employment size, 1963 census, 14260
standard metropolitan statistical area, facts for marketers, 8314
Rocky Mountains:
Colorado, weather and climate of high mountain pass, 4475
northern and central, site index curves for Engelmann spruce, 10567
Rod and dish cathode improves Penning-type vacuum gauge, 6406
Rodenbach, Richard D., southern yellow pine, log overruns, 14708
Rodents, laboratory, viruses, research, 6486
Rodriguez, Antonio J. Senra, *see* Senra, Antonio J., and wife.
Rodriguez, Guillermo, relief, 11704, 17078
Rodriguez, Julio Valdes-, *see* Valdes-Rodriguez, Julio.
Rodriguez, Olibio S., relief, 8709
Rodriques Perez, Ortelio, relief, 15672
Rods:
bypass, transfers heat, 13739
flame-detector, mounting facilitates removal and installation, 7803
Roe, A. L., evaluating growth performance of young stands, 16324
Roelke, Richard J., cold-air performance evaluation of scale model oxidizer pump-driven turbine for M-1 hydrogen-oxygen rocket engine, 7881

Roentgenologists, Belorussian SSR, 3d conference, 6157
Roentgenology, general, problems, USSR study, 921
Roger Williams National Memorial, establish, report, 486
Rogers, Blair O., facial disfigurement, rehabilitation problem, 9758
Rogers, Edith Nourse, Memorial Veterans' Hospital, *see* Edith Nourse Rogers Memorial Veterans' Hospital.
Rogers, John W., relief, 17425
Rogers, K. W., solid nitrogen formed by cryopumping, 15058
Rogers, Nelson F., shortleaf pine in Missouri, understory hardwoods retard growth, 794
Rogers, Stephen H., herring fishery in southeastern Alaska, 749
Rogers, Terence A.:
  ameliorative measures in fasting, subarctic survival situations, 5313
  energy cost of cross-country travel in Arctic, 3783
Rogue River, Oreg., motor carrier accident, 13442
Rohl, G. E., effects of jet fuel anti-icing additive on fuel tank linings, 1369
Roll:
  control positions of space vehicle, effect of nose-mounted control-system jets on aerodynamics, 6448
  deck motion of aircraft carriers, determination, 1354
  single-degree-of-freedom roll equation with time-dependent coefficients, solving, 4917
Rolla, Colo., railroad accident, 12080
Rolla Jewel Bearing Plant, change name to William Langer Jewel Bearing Plant, 17193
Rolling mills:
  and finishing mills, census of manufactures, 1963, industry statistics, 8334
  industrial plant equipment handbook, 8803
Rolls, L. Stewart:
  flight investigation of aerodynamic properties of Ogee wing, 2407
  flight-measured ground effect on low-aspect-ratio ogee wing, etc., 11058
Roman, H. Roth:
  technical papers of metallographic groups—
    16th meeting, 148
    17th meeting, 149
Rome, N.Y., commodity transportation survey, production area series, 9953
Rome Air Development Center, technical report, 8201
Romm, Joseph, speech, Oct. 4–5, 1965, 14292
Ronchi, Lucia, detection of circular light signals in relation to shape and color identification, 8213
Rondberg, Samuel R., relief, 15688, 15809
Rondon, Antonio Maria, *see* Rondon Delgado, Antonio.
Rondon Delgado, Antonio, relief, 15835
Ronsivalli, Louis J., pasteurization of fishery products with gamma rays from cobalt-60 source, 4407
Roofers, employment outlook, 9275
Roofing:
  asphalt and tar, current industrial reports, 2817
  corrugated, protected-steel, design criteria, Army technical manual, 3833
  design, technical manual, 9904
Roofs:
  decking, Army technical manual, 129
  snow loads in areas of heavy snowfall, 16323
Rooms, diplomatic reception rooms, description, 12521
Roosevelt, Anna Eleanor, memorial services, 7052
Roosevelt, Franklin D.:
  commemorative stamp dedication (address), 5084
  6-cent regular postage stamp, 2510
Roosevelt, Franklin D., Library, *see* Franklin D. Roosevelt Library.
Roosevelt elk, *see* Elk.
Roosevelt Field, air pollution measurements, 7989
Roosevelt Library, *see* Franklin D. Roosevelt Library.
Roots, yellow birch, phosphorus to subsoil promotes development, 8958
Roots of equation, *see* Mathematics.
Rope, Federal item identification guides for supply cataloging, supplements, 2934
  see also Wire rope.
Roppel, Richard M., effects of radiation on submicroscopic structure of sympathetic neuron, 11380
Rosa, J. Marvin, electric analog for computing direct surface runoff, 9776
Rose, R. K., fluid amplifier digital integrator, 6329
Roseau River:
  survey, flood control, engineer report—
    departmental edition, 670
    document edition, 461
Rosefish, diet of bream fry at early developmental stages in Aral Seas, USSR study, 2276
Rosen, Howard, vocational education, training for yesterday's jobs? 13589
Rosen, Seymour M., part-time education in USSR, evening and correspondence study, 650
Rosenbaum, Burt M.:
  range residuals in VHF radar tracking, 15169
  statistical distribution of breaking strength of bundle of classical fibers, 2423
Rosenberg, Harry M., seasonal variation, of births, U.S., 1933–63, 11200
Rosenberry, Paul E., commercial Corn Belt farms, 14533
Rosenblatt, Harry M., spectral analysis and parametric methods for seasonal adjustment of economic time series, 273
Rosenfeld, Carl, why women start and stop working, study in mobility, 1095
Rosenfield, A. R., crack extension and propagation under plane stress, 9641
Roses, production and sales, etc., 8089
Rosholt, Robert L., administrative history of NASA, 13728
Roshore, E. C., investigation of performance of concrete and concreting materials exposed to natural weathering, 4343
Rosier, Carl, stream catalog of southeastern Alaska regulatory districts, 5, 6, 7, and 8, 2047
Rosin, *see* Naval stores.
Roslyn, Wash., hydraulic coal mining research, 1159
Rosofsky, Rose G., training of public assistance recipients under MDTA, 10842
Ross, Reuben J., jr., silicified Ordovician brachiopods from east-central Alaska, 9650
Rossettos, John N., nonlinear membrane solutions for symmetrically loaded deep membranes of revolution, 7835
Rossi, Maria, relief, 15792
Rosters, *see* names of departments, etc., issuing rosters.
Rostow, Eugene V., nomination, hearings, 17579
Rostvedt, J. O., summary of floods in United States during 1961, 830
Roswell, N. Mex., brakish water conversion demonstration plant, reports, 9036–37
Rot, *see* name of rot.
Rotary valve controls multiple hydraulic leveling cylinders, 16625
Rotating mandrel speeds assembly of plastic inflatables, 7791
Rotation:
  Euler's theorem on rotations, use for synthesis of attitude control systems, 16696
  ring counter circuit switches multiphase motor direction, 9453

ROTC, *see* Reserve Officers' Training Corps, Army.
Roth, Emanuel M., bioenergetics of space suits for lunar exploration, 10975
Roth, H. P., technical papers of 14th metallographic group meeting, 147
Roth, J. Reece, nonadiabatic particle losses in magnetic fields, 2437
Roth, William M.:
addresses—
Feb. 1, 1966, 6619
Feb. 14, 1966, 6620
Rothermel, Richard C., influence of moisture on effectiveness of fire retardants, 5994
Rotorcraft, external-load operations, Federal aviation regulations, 14613
Rotors:
axial-flow pump—
design and performance, errata, 4896
with tip diffusion factor of 0.66, blade element performance, 15191
heavy lift tip turbojet system, 1659–71
hingeless rotor helicopter, handling qualities, 11053
hollow spherical, fabricated by electroplating, 15097
turbine blades, simple key locks, 4880
Roughage, *see* Food for livestock.
Roughness, *see* Surfaces.
Rouls, Janalyce, training home economics program assistants to work with low income families, 62
Roumasset, Charles A., Negro in the West, 10876, 14983
Routing, MILSTRIP, identifier codes, 11854
Row, Clark, improving sawmill profits through operations research, 4476
Rowen, Henry S., talk, Aug. 19, 1965, 3866
Royalties, charged to Govt. for use by contractors of chemical milling inventions, GAO review, 7478
Roys, George P., measurements by aircraft of condensed water in Great Plains thunderstorms, 15421
RSFSR, *see* Russian Soviet Federated Socialist Republic.
Rubber:
census of manufactures, 1963, industry report, 6904
industry, 1966 prospects (address), 329
products—
census of manufactures, 1963, manufacturing plants, location, 12700
industry in Puerto Rico, minimum wage rates, data, 5219
supply and distribution for U.S., current industrial reports, 2817, 8354
synthetic—
census of manufactures, industry report, 3893
commodity transportation survey, shipper series, 3909
see also names of articles manufactured from rubber.
Rubber-coated bellows improves vibration damping in vacuum lines, 10996
Rubber gloves, leak-testing and sterilizing with dispenser, 9473
Ruben, George, deferred increases and wage escalation, 4737
Rubidium:
determination by flame photometry, 15023
vapor—
effects on Bayard-Alpert ionization gages, 15179
frequency standards, long-term performance, 15210
Rubies, effect of ionizing radiation, 7888
Rubin, C. P., analytic longitudinal response analysis for axisymmetric launch vehicles, etc., 4809
Rubino, Guiseppe, relief, 16006, 17069
Rudd, Benjamin W., decisions of United States courts involving copyrights, 1963–64, 594
Rudduck, R. C., application of wedge diffraction to antenna theory, 4827
Rudgers, A. J., calculation of monostatically reflected velocity potential, etc., 12422
Rudjer Boskovic Institute, gamma radiation sources, Yugoslav study, 961
Rudolf, Paul O.:
botanical and commercial range of—
black spruce in Lake States, 5985
white spruce in Lake States, 5984
forest genetics and related research, annotated bibliography, 14715
forest tree improvement research, 1965, in Lake States, 10596
Rugby, U. K., phase variations of 16 kc/s signals from GBR observed at College, Alaska, 1297
Rugger, George R., weathering of glass reinforced plastics, 7268
Rugs, Wilton, Brussels, etc., Tariff Commission report, 15388
Rules, *see* Lames of courts, commissions, etc., issuing rules—*also* subjects.
Rules and Administration Committee, Senate:
calendar, 3143
committee print, 5825
hearing, 14504
investigations and studies—
privileges and elections, expenses, report, 4201
standing rules of Senate, authorization, report, 4202
reports, 558, 560–562, 1919, 1925, 4174–4207, 5752, 5756, 5758–60, 7190–97, 8736, 10288–295, 11735, 13134–135, 13170–172, 14461–462, 16073–75, 16093, 16096–99, 16106, 16132, 17468–474, 17489, 17543–546
travel regulations, 8790
Rules Committee, House:
hearings, 7163, 8680–81, 10266–267, 13059, 17393
reports, 506, 1820–1843, 5653–55, 5660–63, 5665, 5670–71, 7079, 7081, 7088–89, 8542–44, 8548, 8567–70, 8600–3, 8610–12, 8623–25, 8636, 10121, 10125, 10144–145, 10170–71, 10218–219, 11619–620, 12908–910, 12912, 12922, 12945, 12950, 12973–974, 12993–994, 14391, 15841–842, 15845, 15858–860, 15862, 15874, 15876–878, 15890, 15898, 15903–905, 15923–926, 17196–198, 17220, 17241, 17297–301, 17323
Rules of order, *see* Parliamentary practice.
Rules of practice and rules relating to investigations, 12498
Rumania:
Academy, 1966 general meeting, 10780
Academy of Sciences, achievements, 17786
background notes, 6627
biological and medical sciences, 10739
biological sciences, direct confrontation with life, 9086
biophysics, 13489
computer, general-purpose, development, 14912
decree concerning scientific degrees, 2246
development of geophysics in last 2 decades, 14895
hygiene, evolution and present problems, 12135
industry, minerals yearbook chapter, 4777
inventions in fields of mining, coking, materials testing, particle accelerators, and chemistry, 10805
labor conditions, 13644
long-range broadcast transmitter, 12147
malaria research, 6195
national conference on normal and pathological morphology, 14842
National Council for Scientific Research, law on establishment, organization, and functions, 6225
nuclear science, developments, translation, 13482
production, application of physics, 12107
provincial press, summary, 3562

Rumania—Continued
science must become active and dynamic factor in progress, 10704
scientific research—
as reflected in statistics, 9111
new guidelines, 16468
program for 1966–70, draft, 13578
urgently needed to improve university instruction, 9136
scientists, recruitment and training, 7589
soil and land utilization, research, 14886
Run-in with chemical additive protects gear surface, 6395
Running, *see* Gaits.
Runoff:
data, computer program for reduction and preliminary analyses, 9
direct surface, electric analog for computing, 9776
hydrograph equation, analysis, 8126
hydrology, conservation etc., of runoff water in playas, 15435
mountain rivers of central Asia, problems of forecasting, USSR study, 6216
Runways (aeronautics):
Army pioneer-type, portable surfacing, laboratory and engineering field tests, 4340
roughness, response of turbojet and piston-engine transport airplane, 4919
surfaced with steel landing mat, design curves, 10441
T11 aluminum airplane landing mat—
engineering tests, revised design criteria, 7337
subgrade stabilization with portland cement, etc., 7333
Rural communities:
advantages of industrial expansion in rural America (address), 14126
agricultural program in action, 10399
consumer expenditures and income, 1960–61—
northeastern region, 12207
southern region, supp., 7663
total north central region, 7662, 10855
total northeastern region, 10854
total southern region, 13591
total United States, 10857, 12208
total western region, 10856
western region, 9205
consumer expenditures and income, 1961—
rural farm population—
north central region, 14117
northeastern region, 15438
southern region, 14118
United States, 12590
western region, 25, 12589
rural nonfarm areas—
north central region, supp., 2289
northeastern region, 1089
southern region, supp., 2290
United States, supp., 6255
western region, supp., 2291
cooperatives in action, 7275
credit unions in action, 8823
defense against weapons of mass destruction in rural area, USSR study, 973
family counseling in action, 11859
Farmers Home Administration strengthens, 8160
financial assistance to rural groups for water and waste disposal systems, 6769
food—
distribution in action, 10400
home production in action, 10401
increased opportunities for good living in rural America (remarks), 5297
keeping people in countryside through new economic opportunities (address), 14127
legal services program in action, 16219
migrant worker programs, 14528
Neighborhood Youth Corps action program, 16220
new product development for economic growth, 1595
Rural communities—Continued
nonmetropolitan areas, families and unrelated individuals, 1964 income, 8364
older people in action, 8827
outdoor recreation enterprises, handbook, 5912
present and future in rural America (remarks), 6777
programs to support and encourage (address), 5280
public health service, Soviet Union and Bloc countries, 7557
putting rural America in shape to encourage business and industrial expansions (address), 9806
remedial reading in action, 11860
resources of rural America for improving human resources (speech), 9839
rural areas development at work, 8155
rural opportunities, war on poverty, 10405
southern region, plastic impregnated wood, radiation produced, commercialization of process of manufacturing, 11438
spending and saving in urban and rural areas, 2293
statistical summary, rural areas development and area redevelopment, quarterly progress report, 8893
urban agglomeration and its meaning for rural people, analysis, 13263
youth in crisis, facts, myths, and social change, 1541
youth opportunity centers in action, 16221
see also Country life.
Rural Community Development Service, appropriations, 1967, Agriculture Dept., hearings, 8648, 11787
Rural credit, *see* Credit unions.
Rural development program:
adapting space to needs of people in both city and countryside (address), 9806
building rural America, rural areas development, press reports, 14597, 17644
community development district act of 1966, planning of public services, etc.—
hearings, 8761, 14403
reports, 8740, 12918
economic and social potential (remarks), 1605
individual and community advancement, Federal assistance, 11347
local government in economic development, research needs and opportunities, 13262
mid-Hudson project, 14596
new product development for economic growth in rural areas, 1595
new tools to help rural America through local leadership (remarks), 5296
newsletter, 3484
participation of rural America in resource planning and development (speech), 9839
planning of public services, etc., message from the President, 5604
present and future plans, remarks), 6777
rural areas development at work, 8155
rural community leadership (address), 3740
Rural electricity, *see* Electricity.
Rural Electrification Administration:
appropriations, 1967, hearings, 8648, 11787
legislation, hearings, 13011
loan program, 6761
REA borrowers—
electrifications systems, list of materials acceptable, 8153, 15319
supplement, 6594
energy purchased, 1965 report, 1453
telephone systems, list of materials acceptable, 8154, 11212
REA bulletins, 1453, 6595
report, 8013
statistical bulletin, quarterly, 3446–47

239-221—67—No. 863——34

Rural Electrification Administration—Con.
statistical report, rural electrification borrowers, 16818
telephone system, construction contract, 12497
Rural fallout shelter analysis workshop, instructor manual, 8384
Rural families, *see* Families.
Rural life, *see* Country life.
Rural lines USA, story of cooperative rural electrification, 6761
Rural mail carriers, *see* Mail carriers.
Rural redevelopment:
area redevelopment, approved projects, directory, 2685
areas, summary list, designation status report, 3552
redevelopment (periodical), 3458
renewal authority under Bankhead-Jones farm tenant act, broaden, report, 15916
statistical summary, rural areas development and area redevelopment, quarterly progress report, 8893
Rural telephone programs, *see* Telephone.
Rush, E. S.:
tests with CH–47A Chinook helicopter in soft clay soils, 4337
trafficability tests on confined organic terrain (muskeg), 5890
Rushmer, Margaret A., weather resistance of porcelain enamels, 12380
Rusk, Dean:
addresses, etc.—
Feb. 25, 1964, 2578
Oct. 16, 1965, 1491
Feb. 18, 1966, 9722
Mar. 16, 1966, 11252
Russell, Clarence C., and wife, relief, 16036
Russell, Frank L., water production in polar ice cap by utilization of waste engine heat, 8247
Russell, Louis M.:
compatibility of polymeric materials with fluorine and fluorine-oxygen mixtures, 12340
reaction characteristics of spills of fluorine and fluorine-oxygen mixtures upon various materials, 7816
Russell, Warren J., some influences of antigen concentration and nonreacting additives on mobility and diffusion in immunoelectrophoresis, 12646
Russia, *see* Union of Soviet Socialist Republics.
Russian accessions, L. C. monthly index, 3214
Russian language, students, use of folklore in anti-religious education, 7581
Russian Orthodox Church, Moscow Patriarchy, comments on American policy in Vietnam, 10814
Russian Soviet Federated Socialist Republic:
physicians, training in higher institutions, 7615
public health problems, 7596
training of medical personnel and development of ambulatory polyclinical care, 7551
Russo, Leonardo, relief, 10115, 12809, 13113
Rust, Irwin W.:
assuring democratic election of cooperative directors, 5909
creating training programs for cooperative directors, 5910
recognizing ideal cooperative director, 7348
should cooperatives tighten membership requirements? 10453
what cooperative members should know, 684
Ruth Lake, sockeye salmon, growth and survival after removal of resident fish, 17678
Ruthenium:
disposal from supplemental stockpile—
hearing, 10326
law, 10074
reports, 8589, 8757
Rutland Corner House, Boston, Mass., halfway house, study, 1529
Ruttenberg, Stanley H., nomination, hearing, 14501
Ruz, Juanita Castro, *see* Castro, Juanita.
Rwanda:
background notes, 11244
mineral industry, minerals yearbook chapter, 9362
Tanzania boundary, study, 15343
Ryegrass, FDA manual for pharmacists, 7447
Ryack, Bernard L., individual and group learning, 14994
Ryan, Cornelius:
last battle (book)—
Soviet colonel reviews, 14925
Soviet commentary, 13494
Rye:
crop production, 5174
futures—
commitments of traders, 2765
trading and open contracts, 3014
Rynearson, Garn A.:
mineral industry of—
Brazil, 10913
British Guiana, 6296
Surinam, 6306
Ryukyu Islands:
agricultural commodities, agreement, 6653
appropriations, 1967—
hearings, 13014, 17568
reports, 15915, 16159
claims of inhabitants, payment, law, 398
economic and social development, increase appropriations, amend act—
hearings, 7121, 16174
reports, 8593, 8610
foreign assistance appropriations, 1966, report, 545

S

S.A.M., *see* School of Aerospace Medicine.
S.B.A., *see* Small Business Administration.
S.E.C., *see* Securities and Exchange Commission.
S.M.C., *see* Supply and Maintenance Command.
S & E McCormick, Inc., accident, 13443
Saad, George J., relief, 11711, 15694
Saalfeld, F. E., diffusion rates of methyl chloroform through some insulation materials, 1380
Sabghir, Aaron, construction review, monthly industry report, 2789
Sabine, RLCT–9, lunar charts, 14186
Sabie, E. G., Harrodsburg limestone in Kentucky, 9015
Sablefish, distribution, abundance, and size of mouth of Columbia River, 4409
Sableski, Joseph J., paper, Nov. 1965, 15274
Sabrosky, Laurel K., first-year 4–H club members, 8152
SAC, *see* Strategic Air Command.
Saco River and Valley, water resource appraisals for hydroelectric licensing of basin, planning status report, 4387
Sacramento, Calif., principal electric facilities, map, 7378
Saddle horse barn, 15454
Sadowski, Henry, nuclear radiation processing optical maser materials, 16971
Sadwin, Lippe D.:
measurement of lateral pressure generated from cylindrical explosive charges, 2350
streak camera method for measuring dynamic equation of state properties of rock, 9386
Safe Harbor, Pa., principal electric facilities, map, 7374

Safe work guide, Department of Labor safety training programs, SWG LS series, 7657
Safeguard our Nation's youth on the job (series), 9200, 10849, 14967
Safeguarding your business and management succession, 5137
Safety at sea, *see* Safety of life.
Safety Bureau:
pamphlet BOSP series, 1742
report BOSR (series), 15614
Safety equipment and appliances:
automatic protective vent has fail-safe feature, 15099
Federal item identification guides for supply cataloging, supplements, 2934
see also names of special equipment and appliances.
Safety footwear, *see* Boots and shoes.
Safety of life:
AEC citation for outstanding service, to Gale, Fred E. (remarks), 168
aerospace maintenance safety, 2644
air safety—
aerospace safety (periodical), 2645
emergency procedures over water, 2666
naval aviation safety review, 2684
rules of CAB pertaining to accidents, etc., investigations, 14287
safety education series, 14681–682
at sea—
amend coastwise laws, etc., hearings, 13204
disclosure of modern fire safety standards, report, 14466
disclosure of safety standards, report, 17320
report on Yarmouth Castle disaster, report, 8613
atomic energy program—
Isthmian Canal studies, safety evaluation for air blast, ground shock, throwout, and dust, 155
nuclear explosion underground, Project Dribble, safety from radioactivity, ground water, 5414–16
on-site radiological safety, Project Sulky, 16974
reactor safety, literature search, 5402
shipments of radioactive material, summary of incidents, 9927
challenge to supervisors, making young workers safe workers, 16519
child protection act of 1966, reports, 15942, 16121
child safety act of 1966, hearings, 15979
consumer information, price list, 2519
danger, youth lifting, 12202
demolition workers, safe work guide, 7657
drug safety, hearings, 14423, 15971
electric supply and communication lines, safety rules for installation and maintenance, supp., 5004
farms, National safety week, 11364
fire safety in construction projects (talk), 14742
general safety and health standards for Federal supply contracts under Walsh-Healy public contracts act, regulation, 12558
highway accident prevention programs (remarks), 357
highway improvements and safety, Federal-State coordination (remarks), 14328
highway program (remarks), 10036
highway safety—
interagency liaison conferences, report, 6592
research organizations and resources in U.S. directory, 9638
highway safety act of 1966—
hearings, 10264, 10368
law, 15742
reports, 12946, 12993, 16078
Safety of life—Continued
highway safety action program, 8007
health, medical care and transportation of injured, 5130
remarks, 353
traffic, development under Federal standards (remarks), 11524
industrial safety, construction industry (series), 16517
interstate natural gas pipelines, FPC report, 8770
kit o'tips for youth and their employers, 10848
Labor Department training programs—
safe work guide, 7657
student references, 9201, 10850
labor safety, establishment in Nis, Yugoslavia, 16499
lathe chuck key incorporates safety feature, 11035
longshoring, regulations, 16526
maintenance of reactor safety when working with fissionable materials, USSR study, 13541
maritime safety data—
longshoring, 17806
shipyards, 1085, 4709, 16520–525
maritime safety digest (periodical)—
longshoring, 3181
shipyards, 3182
measures to be taken working with radio-frequency oscillators, USSR study, 915
military pyrotechnics series, 8230
mine safety—
coal mining injury experience, analysis, 4756
Federal coal mine safety act amendments—
law, 7040
report, 5794
Federal metal and nonmetallic mine safety act—
hearings, 8786
law, 15750
reports, 1840, 1843, 16072
respiratory protective devices approved by Bureau of Mines, 6287
Mission Safety 70, workshop on management, etc., of agency activities proceedings, 8928
notice to mariners, 3279–80, 5059
nuclear power reactors, safety analysis, probabilistic methodology, 12684
nuclear safety, review of recent developments, 3283
pesticides, proper handling, naval preventive medicine, manual, 17830
petroleum pipe lines, modify definition of term carrier, report, 1839
pre-employment training, safety guide, 17625
problems of radiation safety in space flights, 2439
publications, price list, 7986
radiaton safety—
and health standards for Federal supply contracts under Walsh-Healey public contracts act, regulations, 11313
civil airports, 3805
considerations in preparation of license applications, notice, 1686
during space flights, 11082
railroad employees and travelers, rules, standards, and instructions for installation, inspection, maintenance, and repair of systems, etc., 16385
railroad safety, ICC operations, report, 8620
print additional copies, report, 10209
radiation safety manual, 6688
reactor safety, explosion containment laws for nuclear reactor vessels, 2502
reminders to competent person in shipyard operation, 1085
road-checks, Interstate Commerce Commission, 1964-65 data, 16386

Safety of life—Continued
safeguard our Nation's youth on the job (series), 9200, 10849, 14967
safeguarding food products and water from agents of mass destruction, USSR study, 891
safety and fire protection bulletin, 8304
Mission Safety-70 Week, bulletin, 18133
Veterans Administration, 2620, 8110, 14064
safety and special radio services, FCC applications and actions, 2916
safety conditions in Agriculture Dept. buildings, GAO review, 8999
safety dial, 1086
safety digest, AMC pamphlet, 113, 3811, 6826, 11391
safety education series, 14681–682
safety in industry—
instructor outline, 1084
mechanical and physical hazards series, 14965
teach them to lift, 4702
safety investigation regulations, SIR series, 14287
safety record, Reclamation Bureau (periodical), 3485
safety review, Navy Department (periodical), 3486
safety standards (periodical), 3487
standard first aid training course, 7967
suggested safe practices for shipyard workers, 7660–61
tire safety act of 1966, report, 8726
tire safety, regulations, hearings, 1930
traffic and motor vehicle safety act of 1961—
law, 15741
reports, 12975, 14391
traffic safety—
crossroads (remarks), 15660
Federal role, hearings, 4222, 10347, 13214
vehicle and highway standards (address), 17053
traffic safety act of 1966—
hearings, 8769, 10251–252
remarks, 5556, 8439
report, 16077
unit safety management, Army pamphlet, 6841
water recreation, drownproofing, 11364
see also Motor vehicle accidents.
Safety officers:
career opportunities, Army Department and other Federal agencies, 8389
examination announcement, amendment, 17033
Safety Patrol Week, *see* National School Safety Patrol Week.
Safety switches, *see* Electric switchgear.
Saffell, Dorothy M., labor offices in United States and Canada, 7651
Safflower:
culture in west-central plains, 30
oilseed crop, growing, etc., 16923
Sagebrush, defoliator outbreak in northern California, 2069
Saigon, Vietnam, Foreign Service buildings program, report, 5637
Sailing directions:
Africa, southwest coast, change, 12403
Australia—
north and west coasts, change, 17968
southeast coast, change, 12404
Baffin Bay and Davis Strait, change, 7955
Baltic Sea, change, 15233
Bay of Bengal, change, 9579
Bay of Biscay, change, 9577
British Columbia, change, 17965
China, change, 5054
England—
east coast, 6519
south coast, 11142
France, north coast, 5053
India, west coast, change, 6520
Sailing directions—Continued
Ireland, change, 12401
Japan, southern, change, 15236
Java, Lesser Sundas, south, southeast and east coasts of Borneo, and Celebes, change, 11145
Kattegat and Sound, change, 12402
Labrador and Hudson Bay, 11140–141
Malacca Strait and Sumatra, changes, 7957
Mediterranean, changes, 15234–235
New Guinea, change, 17967
New Zealand, change, 13893
Norway, northwest and north coasts, change, 11144
Nova Scotia, change, 7954
Pacific Islands, changes, 12405, 16745
Persian Gulf, change, 16744
Philippine Islands, central, including eastern Negros, southern Samar, and northern Mindanao, 9580
St. Lawrence Gulf and River, change, 11139
Scotland—
north and east coasts, change, 11143
west coast, change, 17966
South America, 7956
South China Sea, western shores, changes, 6521, 12406, 17969
USSR, northern, change, 2480, 9578
West Indies, change, 2479
Sailing vessels:
inland, Great Lakes and western rivers rules, amend—
hearing, 10335
report, 17313
Sailors:
civil relief act, text, 1872
Federal seafaring, additional leave, report, 17260
health, on U.S. vessels, protect, subcommittee report, 1935
medical care for seamen by Public Health Service, 5111
staffing Federal seafaring positions, 14435
see also Merchant marine.
Saint Ann's Church, Las Vegas, Nev., free entry of chipped colored glass windows, 8450
St. Augustine Quadricentennial Commission, members, increase, extend termination date, and authorize appropriations, law, 409
St. Clair, Lake, water pollution, control, etc., hearing, 17381
St. Clair River, submerged rock weirs, adequacy to withstand propeller wash, hydraulic model investigation, 11896
St. Elias Mountains, Yukon Territory, Canada, high snowfields, 9892
St. Elizabeths Hospital, D.C.:
health programs, law, compilation, 13049
pay for care, need for improved procedures, GAO report, 6012
St. Johns County, Fla.:
beach erosion control study, engineer report—
departmental edition, 14571
document edition, 14447
St. Laurent, Louis S. E., relief, 1809
St. Lawrence Gulf, sailing directions, change, 11139
St. Lawrence River and Valley:
sailing directions, change, 11139
seaway, 1965 traffic report, 8014
surface water of basin—
quality, 832
records to Dec. 31, 1963, index, 2097
St. Lawrence Seaway Development Corporation:
appropriations, 1966, public works, law, 401
appropriations, 1967, hearings, 10229
audit report, 14386
financial statements, 1965, examination, GAO report, 14724

St. Lawrence Seaway Development Corporation—Continued
press releases, 3403
report, 1965—
departmental edition, 11213
document edition, 10105
traffic report of St. Lawrence Seaway, 8014
transfer, message from the President, 5617
St. Louis, Mo.:
area wage survey, 6260
principal electric facilities, map, 7376
sediment investigations of Mississippi River, 17729
Saint Lucia, *see* Windward Islands.
St. Paul, Minn.:
area wage survey, 9319
commodity transportation survey, production area series, 9958
principal electric facilities, map, 7376
railroad accident, 2136
St. Petersburg, Fla., quarters for Coast Guard members, savings through use of FHA owned houses, GAO report, 2085
Sakhalin, southwestern, nature of gravity anomalies, USSR study, 14805
Salad dressing, and related products, current industrial reports, 15588
Salaries:
checks drawn in favor of banks, etc., for credit of Federal employees' accounts, 5191
Defense Dept. overseas teachers, correct inequities in compensation—
law, 8467
reports, 4173, 7101
dentists and dental hygienists in local health departments, 12484
District of Columbia—
firemen, increase—
hearings, 12037, 10338
reports, 15853, 16139, 17312
judges, retired, increase retirement salaries—
law, 15757
report, 16114
police, increase—
hearings, 10237, 10338
reports, 15853, 16139, 17312
teachers, increase—
hearings, 13027, 13205
report, 12971
teachers performing extra classroom duties, additional pay—
hearing, 13205
reports, 12971, 13149
teachers, school officers, etc., increase, reports, 16139, 17312
dual compensation act, operations of executive branch under title 2, report, 7158
experience under sick-pay plans, Great Britain, 18101
Federal classified, postal, and Foreign Service employees, 14434
Government officials and employees—
adjust rates of basic compensation, etc.—
hearings, 7161, 10365
law, 12829
reports, 8596, 10307
back pay act of 1966—
hearing, 5823
law, 7044
reports, 7078, 7179
bimonthly statistics, 2639
Federal personnel manual supplement, 2951
hazardous duty pay, named classification act—
hearings, 8788
law, 12837
report, 16070
rates for positions under general schedule, amdt., 302
Salaries—Continued
Government officials and employees—Con.
salary comparability act, law, 403
statuory systems, annual report, 5619
travel time compensation, hearings, 5704
minimum pay, amendment, to certain civil service examination announcements, 8387
motivating employees through within-grade pay increases, 3981
Naval Postgraduate School academic dean, repeal limitation—
law, 15719
report, 13181
nonproduction workers, 1963, supplementary compensation, employer expenditures and practices, 4731
position and pay management, supervisor development program, basic course, 11394
postal service employees, personnel handbook, 3330
professional, administrative, technical and clerical, national survey, Feb.–Mar. 1965, 2303
rates, Federal classified, postal, Foreign Service employees, 7159
Selective Service System local boards and appeal boards, increase rates, hearing, 10258
Smithsonian Institution executive position, rates of compensation, establish—
hearing, 15986
reports, 17229, 17541
State, salary ranges of positions in employment security, etc., 836, 10657
teachers—
city public schools, 1925–65 trends, 13618
elementary and secondary, teaching incentive act of 1965, hearings, 5691
see also Wages.
Sales:
agricultural exports, 1964 dollar sales all-time high, 628
Agricultural Stabilization and Conservation Service reports, 3490
automotive, occupations, employment outlook, 9210
by class of customer, census of business, 1963, wholesale trade, subject report, errata, 208
census of business, 1963, merchandise line sales, announcement and order form, 8323
commodity line, census of business, 1963, wholesale trade, subject report, 1701
department stores—
annual distribution by months, 7417
by departments, monthly report, 3212
distribution by departments, 7417
indexes without seasonal adjustment, 7417
selected areas, monthly report, 8368
selected cities and areas—
monthly report, 3213
weekly percentage, 3700
export, promotion announcements, 2897
large corporations, quarterly report, 3489
prospects, 49 nations schedule fairs, worldwide agencies, etc., 13438
size, census of business 1963, wholesale trade, subject report, 207
water and sewer bond, 11964
see also names of commodities, etc.
Sales finance companies, *see* Finance companies.
Sales management for manufacturers, bibliography, 9644
Sales tax, State taxation of interstate commerce, report, print additional copies, reports, 10187, 14461
Salesmen (securities), *see* Salesmen and salesmanship.

Salesmen and salesmanship:
employment outlook—
automobile salesmen, 9210
real estate, 10864
securities salesmen, 9273
selling around world—
how Commerce Department helps, 4026
how commerce helps (address), 5545
selling in—
Belgium, 12781
France, 344
Italy, 340
Lebanon, 11520
Yugoslavia, 8431
selling services for international development, 3868
wholesale trade, manufacturers', retail stores, employment outlook, 9272
Salinas Valley, Calif., Pancho Rico formation, 820
Saline water, *see* Sea water—Water.
Saline Water Office:
appropriations, 1967, hearings, 7113
press releases, 3404
program, 1967 fiscal year, review, hearings, 8671
report, 1965, 16371
West Coast Test Site groundbreaking ceremony (remarks), 13429
Salinity:
and pattern of selective ion transport in plants, 7513
Atlantic ocean, distribution by subsurface equatorial countercurrent, USSR study, 893
fresh-water discharge-salinity relations in tidal Delaware River, 10647
Lower Rio Grande problem, solution—
law, 15755
reports, 12961, 15876, 16102
sea water, table of sigma-t with intervals of 0.1 for salinity, 7441
Salish Indians, *see* Flathead Indians.
Saliva:
calcium determination in parotid fluid in weightless state, 6810
formula for human parotid fluid collected without exogenous stimulation, 12639
parotid fluid—
corticosteroid levels, prednisolone and triamcinolone effects, 9868
corticosteroid response during dexamethansone suppression tests, 11383
flow rate in subtropical climate, seasonal variations, 6813
free 17-hydroxycorticosteroid levels in acute and chonic renal failure, 1627
increased caries resistance associated with higher flow rate, 9866
protein-free filtrates, preparation, 8217
protein in patients with uremia and proteinuria, 9875
steroid and electrolyte responses to exercise, 8219
uric acid content collected without exogenous stimulation, 9869
uric acid responses to probenecid administration and to hemodialysis on artificial kidney, 9874
protease levels in relation to periodontal status in man, 11381
protein content of parotid fluid collected without exogenous stimulation, 11379
Sallee, Kenneth H., soil survey report, Scott County, Kans., 5148
Salmi, Reino J.:
compressed-air model investigation of solid rocket overpressures due to interference from aft-end ignition rocket, 13840
nonmetallic ablative materials as nozzle sections of hydrogen-oxygen rocket engine, 9510
Salmincola, *see* Copepods.
Salmon:
sockeye, growth and survival in Ruth Lake after removal of resident fish, 17678
spawning pink salmon, Sashin Creek, southeastern Alaska, distribution and survival of progeny, 16313
spawning stream, effects of log jams and flooding, 13358
Salmonella, reports, 9789
Salmonellosis, interdepartmental conference, 1965 proceedings, 11988
Salmonidae, *see* Trout.
Saloman, Carl H., bait shrimp (Penaeus duorarum) in Tampa Bay, Fla., biology, fishery economics, and changing habitat, 781
Salt:
concentration in fresh and smoked chub, 7435
conductivity, dependence on chemical nature of surface, 6427
corrosion resistance of flame-fused teflon-coated magnesium and aluminum alloys by sodium chloride solutions, 12432
nuclear test in salt dome, grouting mixtures employed, laboratory design, analysis, and field control, Project Dribble, Salmon event, 3853
salt-stress corrosion of residually stressed Ti-8Al-1Mo-1V sheet, 7837
Salt Lake City, Utah:
aircraft accident, 11486
area wage survey, metropolitan area, 9315
Salt River and Valley, water supply outlook and snow surveys, 3687
Salt River Pima-Maricopa Reservation, long-term leases, reports, 14397, 17517
Salt water, *see* Sea water.
Saltcedar, *see* Tamarix.
Salton Sea:
area, water resources of lower Colorado River (series), 16360
hydrologic regimen, 16360
Salton Sea National Wildlife Refuge:
birds, 761
general information, 4413
Saltonstall, C. W., jr., new polymer systems for reverse osmosis membranes, 4558
Salts:
electrochemical analysis by emf, conductance, optical, and kinetic methods, 16717
fused-salt electrolytes containing aluminum chloride, electrodeposition of aluminum, 10923
inorganic, high temperature properties, and decomposition, 17940
mercurated phosphonium and arsonium salts, USSR study, 16415
sorption and swelling characteristics of salt-treated wood, 17697
viscosity in molten salts, calculation, 7901
Saltzman, Edwin J., full-scale lift and drag characteristics of X–15 airplane, 7862
Saltzman method, determination of oxides of nitrogen in diesel exhaust gas, 12249
Salutsky, Murrell, mineral by-products from saline waters, 17737
Salvage:
cleaner formulations for use on corroded equipment, surface chemical methods, 1376
marine salvage and hull repair, Army technical manual, 15520
publications in salvage archeology, 16827
SAM, *see* School of Aerospace Medicine.
Sam Houston, Fort, employees relief, 8527, 17433
Sam Rayburn Memorial Veterans Center, naming, report, 10136
Samar Island, southern, sailing directions, 9580
Samoa, *see* American Samoa.
Samoa Islands, *see* American Samoa—Western Samoa.
Sample surveys, *see* Social surveys.

Sampling, THREE-PEE theory and program THRP for computer generation of selection criteria, 4473
see also names of substances or objects sampled.
Samuelli, Nora L., relief, 383
Samuels, E. R., strontium-90 in Canadian wheat from 1963 crop year, 2541
San Antonio, Tex.:
area wage survey, 16531
HemisFair 1968, U.S. participation, amend act—
hearing, 15967
reports, 12957, 16166
250th anniversary of founding, commemorative medals—
law, 7046
report, 8725
Sanatoriums, *see* Tuberculosis.
San Bernardino, Calif.:
area wage survey, metropolitan area, 6258
commodity transportation survey, production area series, 8347
principal electric facilities, map, 7378
San Bernardino County, Calif., potash feldspar, economic value, 2094
Sanchez-Hernandez, Hector J., relief, 16048
Sanchez Jerez, Ernesto, relief, 17435
Sand:
census of mineral industries, 1963, industry statistics, 11458
cesium-137 gamma rays in sand, differential energy and angle spectra determination, 11423
performance—
sand under tire loads, WES data, dimensionless consolidation, 4336
soils under tire loads, analysis of tests, 10445
Sand pine, *see* Pine.
Sandblasting, portable sandblaster cleans small areas, 11034
Sander, Donald H., height growth characteristics of Siberian elm in central Great Plains windbreaks, 8966
Sanders County, Mont., geology of damsites on Flathead River, 2105
Sanderson, Agnes G., agricultural economies of dependent territories in Western Hemisphere and Puerto Rico, 4285
Sanford, F. Bruce, fishery industrial research, 10531
Sandford, Maynard C., flutter studies of variable sweep-wing airplane, 13820
Sandia Laboratory, AEC, photographic equipment, utilization and procurement, review of controls, GAO report, 4503
Sandia Pueblo:
land to be given in trust—
law, 5588
report, 4115
San Diego, Calif., area wage survey, metropolitan area, 6259
San Dimas Experimental Forest, streamflow records, 4448
Sandrock, Gary D., cold reduction as means of reducing embrittlement of cobalt-base alloy (I–605), 13832
Sands, A. G., studies to improve wear durability of polytetrafluoroethylene coatings on elastomeric vulcanizates, 1378
Sandstone, oil producing, flow characteristics, Illinois, Indiana, and Kentucky, laboratory evaluation, 12258
Sandwich construction, *see* Cylinders—Panels and paneling—Shells (aircraft).
Sandy Hook Bay:
phytoplankton populations, distribution, etc., 7444
zooplankton communities, 7444
Sandy Hook to Cape Henry, coast pilot, supplement, 5532
Sanford, F. Bruce—
commercial fisheries abstracts, 2762
fishery industrial research, 751, 10531
San Francisco, Calif.:
aeroradioactivity survey and related surface geology of region, 11417
aircraft accident, 11485
area wage survey, metropolitan area, 9323
commodity transportation survey, production area series, 9959
principal electric facilities, map, 7378
San Gabriel Mountains, Santa Ana winds, case study, 8964
Sanguily, Julio, jr., relief, 11708, 17081
Sanitarians, employment outlook, 9271
Sanitary engineering:
industrial wastes, Army technical manual, 5370
research at SEC, 2538
sewage treatment plants, Army technical manual, 9906
Soviet conferences, 10713
Sanitary Engineering Department, D.C., reappraisal of task system assignments for collection of refuse, GAO report, 2083
Sanitary engineers, conference, 1965, report of proceedings and 1965–66 committee programs, 1415
Sanitation:
buses, handbook, 16794
equipment, Federal item identification guides for supply cataloging, supplements, 2935
facilities serving rural areas, FHA insured loans, general information, 6769
Naval Medical Research Unit, agreement with Ethiopia, 8075
North Pacific clams, joint seminar, proceedings, 13984
projects supported by Agency for International Development, 4579
publications, price list, 11179
shellfish growing areas, manual, 5112
standards, fabrication of single service containers and closures for milk and milk products, guide, 15278
USSR—
armed forces, regulations concerning services, 960
classification of industries and minimum protective zones, 9123
studies, 2259, 6152
vessel construction, standards, handbook, 5106
see also Sanitary engineering.
San Jose, Calif.:
area wage survey, metropolitan area, 4728
commodity transportation survey, production area series, 9959
San Juan, P.R., improved food handling facilities, 46
San Juan Basin:
stratigraphy, Juana Lopez member, Mancos shale, 9014
western, history of nomenclature and stratigraphy of rocks adjacent to Cretaceous-Tertiary boundary, 12024
San Juan County, Colo., manganese occurrences in Eureka-Animas Forks area, 16558
San Juan County, Utah, geology and uranium-vanadium deposits of La Sal quadrangle, 7486
San Juan Island National Historical Park:
establish—
law, 15743
report, 15857
San Miguel project, construct, etc., Interior Dept. report, 12854
San Rafael, Calif., primitive area, mineral resources, 10635
Santa Ana, Calif.:
area wage survey, metropolitan area, 12212
commodity transportation survey, production area series, 8347
winds in San Gabriel Mountains, case study, 8964

Santa Ana Mountains, nighttime drying, 2068
Santa Ana National Wildlife Refuge, general information, 14660
Santa Ana Pueblo:
land to be given in trust—
law, 5588
report, 4115
Santa Fe County, N. Mex., land, transfer to AEC, report, 17514
Santa Maria River and Valley, ground water utilization in area, 9024
Santamour, Frank S., jr.:
insect-induced crystallization of white pine resins—
white-pine cone beetle, 4442
white pine weevils, 4441
Santa Ynez River and Valley, Lompoc subarea, suitability of irrigation water and changes in ground-water quality, 4529
Santee National Wildlife Refuge, birds, list, 14663
Santeler, Donald J., vacuum technology and space simulation, 16619
Santillano, Antonio B., relief, 15822
Santmyer, Carolee, Libya's agricultural economy in brief, 8832
Santoro, Gilbert J., Hall coefficient of tantalum carbide as function of carbon content, 2421
San Xavier Reservation, long-term leases, reports, 14397, 17517
Sard, Thomas A., chance on the outside, 11867
Sardines, Maine, firms canning, list, 777
Sarwar, Muhammad, relief, 5740, 7023
Sashin Creek, spawning pink salmon, distribution and survival of progeny, 16313
Sass, A. R., current distribution in thin film superconducting strip transmission line, 7863
Satellites:
Alouette—
electron densities and scale heights over American continents, 13726, 17890
observations in midlatitudes, electron densities and scale heights in topside ionosphere, 10980
ANNA 1B, NASA/MOTS optical observations, 4923
Ariel II, achieving design compatibility, 9504
artificial earth—
activities of Hungarian observation network, 14833
directional equilibrium, enveloping nonuniform region of gravitational field, 5072
international conference on observation held in Budapest, Hungary, program, 7604
look-angle-prediction technique, 12431
measuring ionospheric refraction of radio waves by signals, USSR study, 12192
attenuation of radiation, USSR study, 14890
attitude control systems, synthesis, use of Euler's theorem on rotations, 16696
attitude determination by Kalman filtering, 16608–609
calsphere, dual, experiment, 1365
camera development, etc., East Germany, 1033
communications—
advanced lenticular passive, from low to synchronous orbit, design studies, 13709
bibliography, 10981
deep space monitoring for space vehicles, 2435
FCC rules and regulations, 2925, 13314
government use—
hearings, 15973
report, 17345
historical background, etc., 15078
Satellites—Continued
communications—continued
national programs, review, hearings, 7201
orderly-spaced, probabilities, time available, 1187
satellite act of 1962, report on activities, etc., 5618
earth, optical observations of earth's horizon, deriving earth-centered datum, 7880
Echo II—
ionospheric parameters derived from radar returns during solar minimum conditions, 12442
metal-polymer laminate, mechanical and physical properties, 15140
passive communications satellite, experimental and theoretical evaluation, 9505
postlaunch structural analysis, 6418
signal fading characteristics, 13715
strain measurements, 7817
electron—
collection by spherical satellite in earth's magnetic field, 17877
densities and scale heights in topside ionosphere, 13726, 17890
endless-loop tape transports, design, etc., techniques, 11050
errata, 16650
ESSA I, meteorological data, television cloud photography, catalogue, 14580
Explorer XIX, determination of mean atmospheric densities during minimum solar activity, 11059
Explorer XXIX (Geodetic Explorer), 12278
geodesy, 1958–64, significant achievements, 17889
Goddard project summary data, 9389
gravity gradient torque effect on motion of spin axis of asymmetric vehicle, 9407
infrared data, use for determination of sea surface temperature, 9440
interplanetary monitoring platform—
IMP–I–Explorer XVIII, flight report, 7870
IMP–II Explorer XXI, flight report, 11048
Kosmos-110—
effects of flight on test dogs, USSR study, 12138
flight, Soviet notes, 13548
lunar, orbital elements, estimating by using range and range-rate measurements, study of accuracy, 4911
magnetic tape recording, technology, 2375
meteoroid puncture experiments, theoretical relationships, 6431
meteorological—
APT users guide, 1994
errata, 7341
interpretation and use of cloud data, USSR study, 2197
some aspects of interpretation and use of cloud data obtained, USSR study, 911
meteorology—
significant 1958–64 achievements, 7754
USSR study, 6106
Molniya, rainbow color transmission over 80,000 kilometers, USSR study, 4635
motion, lunar and solar effects on close earth satellites, analysis, 13845
NASA scientific, telemetry processing, 13806
Navy navigation system, 16617
Nimbus—
design, integration, and test, scheduling aspects, National Aeronautics and Space Administration, GAO review, 17714

Satellites—Continued
Nimbus—Continued
meteorological interpretation of high resolution infrared (HRIR) data, 6328
meteorological satellite observations, 2372
NRL satellite position display, operation and performance, 2491
orbital research laboratory, medical aspects, Space Medicine Advisory Group study, 15079
Orbiting Astronomical Observatory, data converter and display system for Wisconsin experiment, 17929
Orbiting Solar Observatory satellite, OSO I, project summary, 13722
orbits—
drift of 24-hour inclined-orbit in earth gravity field through 4th order, 15136
highly inclined, numerical theory, 2408
PCM frame synchronization strategies, computer program to evaluate, 7858
Pegasus, measurements of meteoroid penetration, 4892
Project EROS, program to utilize space-acquired data for natural and human resource management, 16358
Project Relay, final report of Relay I program, 1196
Relay II, navigation experiment utilizing, 7743
scanning small celestial area, use of reaction wheels and nonlinear control, 15184
scientific, wide-range temperature monitoring and compensating networks, new design approach, 16681
sensitivity of short-period tracking data from lunar satellite to lunar gravitational field harmonics, 1271
space communications and navigation, 1958–64, significant achievements, 7753
space measurements survey, 13727
spherical earth, electromagnetic torques in rarefied partially ionized atmosphere, 6471
stabilization, passive gravity-gradient, symposium, 16620
synchronous, drift, earth's longitude gravity field sensed by, 16658
Syncom engineering report, 7896
Syncom II—
drift over Brazil, gravity data in determination of equatorial ellipticity, 9513, 13802
tracking data on equatorial ellipticity of earth, 12336–337
Syncom III launch, 7886
target, visual detection with unaided eye, 15068
TIROS—
infrared radiation coverage of 1963 Atlantic hurricane season, etc., 12335
meteorological data, television cloud photography, catalogue, 1535, 5900, 8867, 11902, 14579
radiation data, tropospheric water vapor content and surface temperatures, 16606
radiation measurements and variations in atmospheric hearing, 17874
TOS, TIROS operational system, general information, 13852
tracking and data acquisition, 7750
use of double-focusing magnetic mass spectrometer, 6422
use to determine ship's position, USSR study, 923
weather satellites, Soviet views and developments, 14883
see also Space stations.
Sato, Matsue, relief, 17084
Saturn (rocket), *see* Rockets.
Saudi Arabia:
desalting, agreement, 8074
establishment of television system, agreement, 18126
foreign trade regulations, 12786, 15649
Jordan-Saudi Arabia boundary, study, 6635
military facilities, construction, agreement, 5158
mineral industry, minerals yearbook chapter, 1141, 17847
Kuwait-Saudi Arabia Neutral Zone, 1129
Sault Ste. Marie, Mich., policies and procedures followed in determining size of new 2d lock, GAO review, 17712
Savannah, Ga., area wage survey, metropolitan area, 13603
Savannah (nuclear ship):
executive agreements waiving sovereign immunity and limitation of shipowner's liability, opinion of Attorney General, 14959
liability during private operation, agreement with Italy, 9729
private operation, liability agreement with Netherlands, 11261
Saville, Thorndike, jr., breakwaters with vertical and sloping faces, 8857
Saving and thrift, spending and saving in urban and rural areas, 2293
Savings accounts, *see* Banks and banking—Deposits (soldiers, etc.).
Savings and home financing source book, 11915
Savings and loan associations:
financial institutions supervisory act—hearings, 15963
report, 16101
flow of savings and mortgage lending activity, all operating savings and loan associations, 2674
insured, average annual dividend rates paid, 14627
legislation recommended to provide more effective remedies (speech), 5933
participation loan transactions, insured associations, 3313
regulatory authority, strengthen, hearings, 11794
savings and home financing, source book, 1965 data, 11915
savings and mortgage activity, selected balance sheet items, FSLIC insured associations, 3010
selected balance sheet data, all operating savings and loan associations, 2674
trends, 7363
see also Federal savings and loan associations.
Savings and loans examiners, examination announcement, discontinuance notice, 14306
Savings banks, *see* Banks and banking.
Savings bonds:
bond tips from your U.S. savings bond reporter, 2709
5-cent servicemen-savings bond commemorative postage stamp (poster), 16783
issued and redeemed, 3651
payroll saving program fights inflation (remarks), 6677
payroll savings E bonds, Silver Patriots award (remarks), 1520
program, Federal employee participation (address), 8015
purchase, importance in Nation's economic well-being (remarks), 6679
regulations governing, department circular, 16877
amendment, 18131
retirement and savings bonds, issuance, reports, 17341, 17537
series A–E, tables of redemption values, 1400, 7985, 11176

Savings bonds—Continued
series E, general information—
department circular, 9747
amendment, 11296
price, etc., 14008
series H, general information, department circular, 11297–298, 16878
series J, tables of redemption values, 1401, 11177
Silver Anniversary Year 1966 (remarks), 1517
some legal aspects, 2549
voluntary payroll savings plans—
provisions, 8101
purchase by Government employees, rescission, 15394
Savino, Joseph M., experimental profiles of velocity components and radial pressure distributions in vortex contained in short cylindrical chamber, 1254
Savitt, Jacob, optimization study of explosive-driven pile, 11397
Sawflies, *see* Flies.
Sawing machines, *see* Saws.
Sawmills:
air-drying practices, 17703
census of manufactures, 1963, industry report, 6897
hardwood—
cants can boost profits, 17684
circular, sawmills in Kentucky and Ohio, cause and cost of production delay, 5977
log grading at circular mills, 5975
how to determine seasoning degrade losses in lumberyards, 788
Kentucky, lumber products, geographic destination and market outlets, 5979
profits, improving through operations research, 4476
small, cost-accounting system, 11991
southern, industry wage survey, 17811
west coast sawmilling, industry wage survey, 2296
Saws, machine mills, saws light materials, 13799
Sawtimber, *see* Timber.
Sawtooth National Park, establish, hearings, 14491
Sawtooth National Recreational Area, establish, hearings, 14491
Saxman, Alaska:
totem pole of Haida Indian, colored poster with—
French text, 15407
German text, 15405
Spanish text, 15406, 15408
Saxonville, Mass.:
local protection, Sudbury River, engineer report—
departmental edition, 672
document edition, 538
Saylor, James H., currents at Little Lake Harbor, Lake Superior, 6339
Sayre, Francis B., papers in Library of Congress, register, 7684
SB series, 3989
SBA, *see* Small Business Administration.
Scabies, psoroptic sheep and cattle, eradication activities, report, 3725
Scaffolding, prefabricated, Federal item identification guides for supply cataloging, supplements, 2935
Scale:
control for saline water conversion distillation plants, 9043
removal of formers from sea water, precipitation processes, 10677
Scale heights in topside ionosphere, Alouette I observations, 13726, 17890
Scale insects, generic names, annotated list, 16931
Scales (electronic):
mechanism isolates load weighing cell during lifting of load, 6397
Scales (measures):
interpolator facilitates reading of graphs, 13738
Scales (weighing instruments):
industrial plant equipment handbook, 11841
mechanism isolates load weighing cell during lifting of load, 6397
Scaling (psychology), *see* Psychometrics.
Scandinavia, manpower policies, 11649
Scandium trichloride, heat of formation, 1168
Scanners:
optical, use in mail handling (address), 2509
photoelectric, makes detailed work function maps of metal surface, 17904
ultrasonic recording scanner used for nondestructive weld inspection, 11014
Scanning:
electron-beam, measurement of work-function variations, principles and instrumentation, 12424
photometer system automatically determines atmospheric layer height, 9477
satellite scanning small celestial area, use of reaction wheels and nonlinear control, 15184
ultrasonic hand tool allows convenient scanning of spot welds, 12328
Scarborough, William R., ballistocardiography, bibliography, 1203
Scarlatiniform, fever, general information, USSR study, 1017
Scattering:
cesium-cesium total scattering cross section, atomic beam determination, 2436
elastic and inelastic, of alpha particles from tin isotopes, 1252
errata, 6411
light, in snowstorms, 9889
media, determination of extinction coefficient, 16407
Mie theory, analysis of F-corona, mathematical formulation, etc., 9437
scattering by dielectric spheres in region of first resonance values, 12439
Schaefer, Karl E., environmental physiology of submarines and spacecraft, 6282
Scharpf, Robert F., determining age of dwarfmistletoe infections on red fir, 17692
Scheduling (industrial management), *see* Critical path analysis.
Scheduling (mathematics):
computer program to improve STADAN station scheduling, 9501
Scheelite, electrolyte life in winning tungsten, 12259
Scheerenberger, R. C., mental retardation abstracts, 3191
Schenectady, N.Y.:
area wage survey, metropolitan area, 13597
commodity transportation survey, production area series, 9953
Scher, Stanley H., booster recovery by use of hot-air balloon, 16705
Schertler, Ronald J., charging submicron carbon powder for colloidal particle thrustors, 16703
Scheuermann, Coulson M., compatibility of columbium and tantalum tubing alloys with refluxing potassium, 9542
Schienbein, Allen G., off-farm commercial storage facilities for grain, 623
Schiffer, Clara G., training for health services for mentally retarded, 279
Schifrin, Joseph A., depletion allowances for mineral production reported on U.S. tax returns, 7520
Schilf, E. A., cooperative State-Federal brucellosis eradication program, progress report, 9790
Schimke, Harry E., petroleum gel as slash ignition aid, etc., 10584

Schloss, Samuel:
fall 1965 statistics of public elementary and secondary day schools, 7307
nursery-kindergarten enrollment of children under six, 10428
statistical summary of State school systems, 1963–64, 1981
Schmeltzer, Edward, remarks, Sept. 9, 1966, 14634
Schmerling, E. R., significant achievements in ionospheres and radio physics, 9446
Schmid, P. E., atmospheric tracking errors at S- and C-band frequencies, 13811
Schmidt, Bernhard, outstanding 20th century optician, biography, USSR study, 6107
Schmidt, James F., effects of magnetic field on conduction heat transfer at stagnation point of partially ionized argon gas, 6436
Schmiege, D. C.:
field test in southeast Alaska of bacillus thuringiensis against black-headed budworm, 13361
mortality of overwintering eggs of black-headed budworm, etc., in southeast Alaska, 13359
oviposition preference of black-headed budworm and host phenology, 13360
Schmitt, Dan, pine species in Harrison Experimental Forest Arboretum, 5996
Schmitt, Marshall L.:
industrial arts education, survey of programs, teachers, students, and curriculum, 13274
learning art of industry, 11875
Schneider, Lawrence A., address, Feb. 9, 1966, 5859
Schneider, R. T.:
photoelectric detection of weak spectrum lines, 6345
spectroscopic method of temperature measurement which does not require transition probabilities, 6333
Schnellbacher, E. E.:
addresses, etc.—
Dec. 2, 1965, 865
Mar. 24, 1966, 6073
Apr. 14–15, 1966, 7523
Apr. 18, 1966, 7525
June 1, 1966, 10689
Sept. 1, 1966, 14780
Schniiler, E. R., macroscopic waveguide and waveguide components for optical systems, 4804
Schnittker, John A.:
addresses, etc.—
Nov. 13, 1965, 5296
Nov. 15, 1965, 3741
Nov. 22, 1965, 3747
Dec. 1, 1965, 5297
Jan. 17, 1966, 5289
Feb. 17, 1966, 6778
Feb. 24, 1966, 6782
Schnitzer, Martin, programs for relocating workers used by governments of selected countries, 4040
Schoenberg, Andrew A., mathematical model, etc., for dynamic behavior of single-tube condenser, 11073
Schoettger, Richard A., electronic method of measuring hematocrits of fish, 14674
Scholars, discuss price fixing for agricultural products, USSR study, 4653
Scholarships:
Army ROTC program, investment for your future, 3824
health professions, program, 6581, 11187
higher education act of 1965, questions and answers, 7812
higher education students, provide, law, 430
outlined by title, 645
section by section analysis, 646
Scholarships—Continued
Indian teen-agers, opportunities, 13425
medicine, dentistry, osteopathy, and optometry, provide through grants to schools, law, summary, 4534
Scholten, John A., preservative treatments of field boxes on nail holding, 4467
School attendance:
decide whether to stay in school or drop out, 9893
drop outs, summer camp used in year-round training program, 16236
School buildings:
construction of elementary and secondary schools, provide grants, hearings, 5690
construction standards, revision to avoid excess seating in dining facilities, GAO report, 9002
disaster areas, construction assistance, law, 415
fallout shelters, design, etc., 5515
federally affected areas, construction assistance—
annual report, 4295
eliminate inequities in military base closings, law 415
preschool facilities planning, 11878
School children, *see* Children.
School districts, affected by Federal activities, effects of proposed changes in Federal aid, 7232
see also Schools.
School dropouts, *see* High schools—School attendance.
School facilities, *see* School buildings.
School libraries, *see* Libraries.
School lunches:
fish go in schools, 4403
get your A for health, eat type A school lunch every day, poster, 10374
lunch at school serves the nation, national school lunch program, 20 years of progress, 16937
menu planning guide for type A, 9829
national school lunch act, amend—
hearings, 13191, 17375
reports, 13146, 15865
national school lunch program, status after 20 years, 9833
program, billion-dollar market for food, 15459
special programs, administration by Agriculture Dept., review, hearing, 7106
type A, quantity recipes, 61
School of Aerospace Medicine:
aeromedical reviews, 91–92, 5325–26, 6809, 14188–189
high level cobalt-60 irradiation facility, 1623
technical reports, 93–100, 1621–27, 3792–99, 5327–36, 6810–16, 8202–20, 9863–77, 11378–384, 12628–646, 14190–196, 15489–495
School officers, *see* School superintendents, etc.
School Safety Patrol Week, *see* National School Safety Patrol Week.
School superintendents, etc., District of Columbia school officers, etc., increase salaries, reports, 16139, 17312
Schoolman's guide to Federal aid, 512
Schools:
administrators, realistic approach to civil defense, handbook, 11492
built with fallout shelter, 5515
business administration, opportunities for cooperation with programs of Commerce Dept. (remarks), 338
civil defense, current status with guidelines for action, 12743
construction program, agreement with Burma, 15370
counselors, inservice education, 647

Schools—Continued
desegregation—
law, Federal rights, 11404
plans, revised statement of policies, 5882
summary, 5875
policies and guidelines, select committee to study, hearings, 17393
southern and border States, survey 1965–66, report, 6960
District of Columbia—
amend act to provide for compulsory attendance and taking census, report, 13140
hearings, 11648
investigation, hearings, 4129
war on poverty, task force study, 11650
elementary and secondary, teachers' salaries, etc., hearings, 5691
elementary, guidance services, national survey, 13272
enrollment—
population characteristics, census, 5487
projections in United States to 1985, 12725
fall enrollment approximately 53.8 million, 6924
Federal aid, Public law 874, effects of proposed amendments on participating districts, 7232
federally affected areas—
entitlement by school districts under P.L. 874 and P.L. 89–10, 11826
impact aid, hearings, 14417
impact aid, reduction, effect, on, hearings—
Hawaii, 14416
Seattle, Wash., 17373
operation assistance, 1965 annual report, 4295
uniform eligibility requirements for assistance, law, 415
ghetto schools are liability to all (address), 16228
grants for construction of training facilities, etc., for health professions personnel—
hearings, 10249, 17591
reports, 10225, 15841, 17535
health program, outline for school and community, 15302
health services, focus resources, 18004
land-rich or land-poor, 8846
let us keep schools open (address), 4308
local and State systems, property accounting guide, implementing, 8842
nursing—
space needs, guide for projecting, 13965
student loan program, information, 18004
programs—
disadvantaged under elementary and secondary education act of 1965, 13268
educationally deprived children—
basic facts for administrators, 1975
better schooling, 640
eligible for Federal aid, education, answer to poverty, 4299, 13270
public—
bond sales, 4296
early elementary education, 1960–61 survey, 7325
equality of educational opportunity, 13271
report of survey, 14551
correlation tables, 14552
improving instruction through title 3 of NDEA, 11874
inheritance comes to P.S. 83, 10425
integration, social and economic implications, 1081
prayer, proposed constitutional amendment, hearings, 16191
State programs for public school support, 4318
Schools—Continued
school transfer record system for farm migrant children, 655
small, big ideas, 7298
Soviet, textbooks, 14565
State school guidance officials, consultation on vocational guidance for girls, 1363
State systems, statistics, 1981
summer mathematics, methods of solving problems of computer programing, USSR study, 7622
USSR, use of teaching machines, 13465
Volusia County, Fla., integration program, 13273
youths of 16 and 17 years of age in school, by counties of United States, 1960, map, 9973
see also Elementary education—High schools—School lunches.
Schools of forestry, *see* Forests and forestry.
Schottky theory, thermionic conversion theoretical background, 6465
Schrage, William F., foreign trade regulations of East Africa, 15646
Schrager, Jules, agency-sponsored programs, after adoption, 280
Schrider, Leo A., oil recovery by low-pressure gas drive in Keener sand, etc., Pleasants County, W. Va., 12253
Schroeder, Harold J.:
cadmium, 13674
zinc, 1173
Schroeder, Mark J., monthly fire behavior patterns, 17696
Schroeder, W. C., application of saline water conversion processes to acid mine waters, 16374
Schryer, David R., oxidation of molybdenum at temperatures at which its trioxide is volatile, 6472
Schuchat, Theodor, open hearts open minds, how America welcomes foreign visitors, 7060
Schuerch, H.:
micromechanics of composite materials, stresses and failure mechanisms induced by inclusion, 15073
semi-atomistic model for flaw-induced fracture in non-ductile materials, 9439
Schuldiner, Sigmund, potential of platinum electrode at low partial pressures of hydrogen and oxygen, 17977
Schulman, Irwin M., correlation of data from tests on nickel-cadmium batteries, 10948
Schult, Veryl, present practices in mathematics instruction and supervision, 8850
Schulte, John H., nuclear warfare defense, 2312
Schultz, Clifford W., activity of manganese in liquid iron-manganese alloys, 12260
Schultz, Leonard P.:
fishes of Marshall and Marianas Islands, 7937
Parapercis kamoharai (family Mugiloididae), new fish from Japan, 11225
Schulz, Charlotte, relief, 8515, 11538, 11721
Schuster, William T., relief, 393
Schutz, R. H., respiratory protective devices approved by Mines Bureau, 6287
Schutzmann, R. L., cleanup and confirmation of identity of pesticide residues by thin-layer chromatography, soil, water and sediment, 14113
Schweiker, Jerry W., response of complex shell structures to aerodynamic noise, 9423
Science:
Academy of Sciences, Belorussian SSR, annual general meeting, 16419
Academy of Sciences, Bulgaria—
candidates for academicians and corresponding members, 12144
Institute of Electronics, achievements, 13526
proceedings, 16465

Science—Continued
Academy of Sciences, Hungary—
academic awards and degrees, directive, 16481
activities of corporate organs, 13576
activities of organs of new Hungarian doctors and candidates of sciences, 9138
awards, 6169
corporate organs after 1965 general assembly, 6208
Mathematics and Physics Department, report of departmental leadership, 9169
recent activities, 14859
reform of economic guidance system debates, 13577
regulation of research sites receiving support, 4606
Technical Sciences Department—
report, 10707
research status and guidance activities, 9081
Academy of Sciences, Kazakh SSR elects vice-president, 7584
Academy of Sciences, Rumania, achievements, 17786
Academy of Sciences, Turkmen SSR, annual meeting, 14894
Academy of Sciences, Ukrainian SSR, news, 994
Academy of Sciences, USSR—
Azerbaydzhan scientists elected, 17795
Biological Science Department, scientific activity of institutions, 14923
Department of Technical Sciences, technical cybernetics, news, 1035, 2221, 6213, 10811
general meeting, 6236, 16447
herald, articles, 2273, 9117
news, 7549
recent activities, 944
recent developments, 6210
vestnik, translations, 14792, 14935
aerospace, bibliography, 12287
agricultural science review, 2652
Antarctica, support for, 2503
aquatic sciences, graduate educational grants, 4412
behavioral sciences and national security, reports, 513, 4090
Bulgaria, progress, 14954
cadres of great science by M. A. Lavrent'yev, discussion, 16452
cancer story, brief look at science and cancer, 6481
Chinese Communist, evaluation of comprehensive study, 16460
cold regions science and engineering—
engineering, 1639
environment, 8249
Commerce Department, background information, 10045
Communist China—
abstracts, 2768–75
translations, 3598
Croatian workers' awards explained by committee, 10806
earth sciences—
Communist Chinese abstracts, 2771
East European abstracts, 2868
Soviet conferences, 13583
USSR studies, 2219
East European abstracts, 2865–72
Eastern Europe, science and Communist society, USSR study, 14929
economic and social implications, current projects, 16741
education, decade of reform (remarks), 15540
evaluation, Yugoslavian study, 14858
exhibits, evaluation of existing criteria for judging quality, 8295
Science—Continued
Federal funds for research, development, and other scientific activities, 1965–67, 17964
future international meetings, world list, 3716
goals in public understanding (remarks), 16979
Government and science, hearings, 1866
higher education in U.S., report, 1867
historical, USSR study, 16397
history, machine methods of data processing in research, USSR study, 7595
Hungarian events, schedule, 906
Hungarian science, translations, 9164
Hungary, scientific research, problems of organizing, 13575
information activities of Federal agencies, 5050, 11137, 13890
interaction between space exploration, science, and technology (address), 1288
International Congress of Pure and Applied Chemistry, scientific papers, abstracts, 8281
international, new era (remarks), 14238
international notes (periodical), 3081
introductory science, textbook, 5842
Lenin prize, nominations, 6229
many faces of change (address), 9931
materials, importation agreements, implement—
hearings, 11692
law, 17138
materials, importation agreement, implement, reports, 12978–979, 17500
Moldavia, new scientific methods applied, 9158
NASA—
scientific reports for 1965, selected listings, 12290
scientific satellites, telemetry processing, 13806
technical information system, how to use, 7720
national guiding organs of scientific life in Socialist nations of Europe, Hungarian study, 10820
National Referral Center for Science and Technology, 6278
nation's policy (address), 8427
natural, methodological problems of mathematical modeling, USSR study, 12169
naval enlisted scientific education program, status, report, 9590
Panel on Science and Technology, 7th meeting—
papers, 8682
proceedings, 5709
philosophical aspects, USSR study, 2255
physical, national standard reference data system—
extend service—
hearings, 15989
report, 12997
NBS, status report, 11098
radio science, 3449
journal of research, National Bureau of Standards, 3103
radiological, protecting and improving health through, 13988
report of Committee on Science and Technology National Citizens' Commission, 1548
reviews of data on resources, 2477, 7951, 9575
role of students in science societies in USSR, 16394
Rumania—
science must become active and dynamic factor in materials and spiritual progress of society, 10704
scientific research program for, 1966–70, draft, 13578
science and cancer, teaching guide, 7932

Science—Continued
science and society, international cybernetics conference, Herceg-Novi, Yugoslavia, 13508
science and your career, facts about training, 7677
science assistant, examination announcement, 17048
science, government, and public policy, panel—
papers, 8682
proceedings, 5709
science, humanities, and Federal government, partners in progress (remarks), 8305
science in world of widening horizons (lecture), 3860
science, technology and future of society (address), 15658
scientific and technical information analysis center managers, directors, and professional analysts, Ad-Hoc forum—
directory, 12677
proceedings, 12676
scientific Communism, discussion of problems, USSR study, 2230
scientific cultivation of agricultural plants, Rumanian study, 14917
scientific information notes, national and international developments, 3494
scientific meeting on 50th anniversary of Telecommunications Research Institute, Hungary, 7578
scientific methods for regulating social processes, USSR study, 17757
Socialist countries, scientific conferences and events, 14860
special foreign currency information program, 1965 list of translations in process, 6978–79
State technical services act of 1965—
fact sheet, 11527
special merit programs, 11528
steps for State participation, 11529
teaching activities related to space, 15036
technical aids, examination announcement, 11501
amendment, 14297
technical problems, use of electronic computers for computing, USSR studies, 9120
technology and role of Federal Government (remarks), 170
telecommunication, and Federal government, report, 17054
truth and consequences (remarks), 169
truth and development of genetics in Soviet Union, 986
Ukrainian Scientific Research Institute of Special Steels, Alloys, and Ferroalloys, poor research management, 16405
USSR—
abstracts, 3671–77
achievements, 13536
conferences, 7564, 10735
research in biology, 1007
current problems, 10798
education, news, 12146
Lenin prizes—
awarded, 12150
recipients, 9172
news, 2274, 4588, 4625, 4672, 6194, 7563, 7618, 10785, 10826, 13580
organizations, news, 14818, 14826
physicians practicing in medical higher educational institutions, activities, translation, 14793
probes, by French journalist, 14817
publications, decimal classification system, 12092
science and technological progress, 2245
scientific conferences, news, 10727
scientific press, criticism, 14927
statements, 10817
see also Life sciences—*also* names of sciences.

Science and Astronautics Committee, House:
calendars, 3125
committee prints, 530, 1867–68, 4144–45, 10269, 13060
hearings, 1866, 5707–8, 7164, 8683, 10268, 11683, 15989, 17394
investigations and studies, aeronautical, outer space, and other scientific research, expenses, report, 4108
Panel on Science and Technology, 7th meeting—
papers, 8682
proceedings, 5709
publications, list, 10269
reports, 4088, 4091, 5634, 5664, 8609, 11597, 12997, 15849
Science and Technology Commission, establish, report, 577
Science and Technology Office, appropriations, 1967, hearings, 8651, 13193
Scientific and technical aerospace reports, 3492
Government-wide index, 3025, 12759
indexes, 3493
Scientific and technical information (USSR periodical):
articles, 6114
Scientific and Technical Information Committee, Federal Council and Science and Technology, subject category list, DoD-modified, 1963
Scientific apparatus and instruments:
development for Surveyor Project, National Aeronautics and Space Administration, GAO review, 10626
duty free entry for certain universities, report, 16130
exports, 1959–65, analysis, 9940
market in France, 1773
mishandling of equipment criticized, USSR, 9174
scientific instruments and equipment, Japan, 4014
Scientific basis of Party's policy, USSR, 16491
Scientific Conference on World Literary Avantguard in Smolenitsy, Czechoslovakia, 10719
Scientific institutions, *see* Nonprofit organizations.
Scientific research:
agricultural marketing, careers, 3760
Air Force officers, opportunities, 5324
Air Force research, 1959, bibliography, 3773
Army Research Office grants, general information, 11393
atom, role of photography in nuclear research and development, 162
basic research, applied research, and development in industry, surveys, 7950, 16740
Bulgarian, financing system, 13529
careers—
agricultural engineering research, 1592
animal disease and parasite research, 53
soil and water conservation, 1591
documentation, current research and development, bibliography, 6597, 15320
Eastern Europe, unified program, 16431
fortifying role of universities and training of cadres, USSR study, 10720
funds for research and development—
Federal, 17964
industry—
final 1963 report, 16740
preliminary 1964 report, 7951
Hungary, 1966 events slated, 4677
Hungary, planning, 2260
information, NSF programs for dissemination, 2476
manpower, impact of Federal research and development policies, hearings, 1949
new conditions and perspectives, Rumanian study, 10803

Scientific research—Continued
research grants of NIH, 1965, index, 13991
Rumania—
needed to improve university instruction, 9136
new guidelines, 16468
reflected in statistics, 9111
scientific developments and their practical use, USSR studies, 12193
scientific documentation sponsored by NSF, price list, 7912
scientific work at research sites, statistics, Hungary, 7580
Ukranian Scientific Research Institute of Special Steels, Alloys, and Ferroalloys, poor management, 16405
USSR—
expansion for economic development, 14897
institutions, news, 13555
organizational problems, 16441
zootechnology, perspectives, Rumanian study, 12108.
see also subjects.
Scientific satellites, *see* Satellites.
Scientific societies, USSR activities, 16414
Scientists:
Academy of Sciences, USSR, Azerbaydzhan scientists elected, 17795
activities in Department of Biological Sciences, Academy of Sciences, Belorussian SSR, 4617
administrator, examination announcement, discontinuance notice, 8398
Agricultural Research Service, teamwork on Delta, study of impact on pesticides on environment, 15467
biological, employment outlook, 9212
career opportunities—
civilian, Air Force Dept., 15485
crops research, 1594
entomology research, 1593
chemical academician N. N. Semenov, biographical sketch, 14882
current employment market, 664–665, 14567
earth, employment outlook, 9233
efficiency, means of raising, USSR study, 16457
employment in industrial research, etc.—
final report, 16740
preliminary 1964 report, 7951
evaluation, Yugoslavian study, 14858
graduate enrollment and Ph.D. output in scientific fields at 100 leading institutions, 1963–64 to 1964–65 trends, 13992
Hungarian—
molecular studies at Moscow State University, report, 12105
nuclear chemistry studies at Warsaw University, report, 12104
visit various countries, 13556
visits Soviet institutions of organic chemistry, study trip, 9105
impact of Federal research and development policies on scientific and technical manpower, hearings, 1949
looking for scientists, fill your needs through Professional Placement Network, 11887
mental activity, use of cybernetics to increase effectiveness, USSR studies, 9106
physical, employment outlook, 9263
radioisotopes, examination announcement, 8404
Rumania, recruitment and training, roundtable organized by G. Cuibus and T. Cazacu, 7589
scientific and technical personnel in oceanography, 17649
scientific manpower in Communist China, 1949–63, 2478
scientific positions, examination announcement, discontinuance notice, 5521
Scientists—Continued
USSR—
activities, 16432
biographies, 10776, 13476
Kapitsa acknowledges shortcomings in industrial application of Soviet scientific achievements, 6128
Krivoy Rog Mining Institute, disagreement, 16395
News, 944, 7549, 13499, 13579
Soviet scientists in Denmark, 13521
training cadres in system of Committee of Standards, 13477
work, 17777
Scintillation, optical, over snow, ice and frozen ground, 8233
Scintillation counters:
low-background whole-body counting facility design, 6857
symposium, Mar. 2–4, 1966, abstracts, 5020
Scintillators, plastic, converts photomultiplier to ultraviolet range, 6410
Sciulli, Joseph A., compression of video data by adaptive nonlinear prediction, 13813
Scleroderris canker on national forests in upper Michigan and northern Wisconsin, 13370
Sclerosis, *see* Amyotrophic lateral sclerosis—Multiple sclerosis.
Scoggins, Robert E., proceedings against, citing for contempt, report, 4095
SCORE, *see* Service Corps of Retired Executives.
Scotic response in cat, 12645
Scotland:
north and east coasts, sailing directions, change, 11143
plant quarantine requirements, 14116
west coast, sailing directions, 17966
Scott, Charles E., jr., industry wage survey, candy and other confectionery products, 16537
Scott, Cloyd H., special sediment investigations, Mississippi River at St. Louis, Mo., 17729
Scott County, Kans., soil survey report, 5148
Scott County, Va., economic and resource development, summary, 2611
Scott's Bluff National Monument, general information, 16737
Scout, *see* Rockets.
Scranton, Pa.:
area wage survey, 17815
commemorative medal, 100th anniversary of founding—
law, 8476
reports, 7181, 8571
principal electric facilities, map, 7374
Scrap:
automobile, potential increase in use (address), 4017
consumption and stocks at brass and wire mills, mineral industry survey, monthly, 2710
ferrous, use in magnetic roasting of iron ores, 7716
fishery—
imports, 739
products, production, 740
iron and steel—
Arkansas, Kansas, Louisiana, Mississippi, Missouri, Oklahoma, and Texas, 9360
consumption problems, 11450
materials, defense scrap yard handbook, 14516
Scrapie:
eradication, new turn, 3726
seminar, report, 11338

Screw propellers, *see* Propellers.
Screws:
expandable insert serves as screw anchor, 9462
machine products, census of manufactures, 1963, industry statistics, 6908
Screwworms:
eradication in Mexico, amend act of Feb. 28, 1947—
hearing, 16169
law, 15711
reports, 10172, 13133
invasion, first line of defense against, control, etc., 15464
Scribner, Bourbon F., activities of NBS Spectrochemical Analysis Section, 16718
Scrip, *see* Land scrip.
Sculpture and statuary:
bust of Constantino Brumidi, place in U.S. Capitol, reports, 7191, 10215
statute of Robert H. Goddard, erect, law, 422
Scupper drain attachments to vessels in drydock, 7656
SD series, 7270, 16214
Sea, *see* Ocean—Water pollution.
Sea food:
irradiation, pasteurization, effect on microbial flora surviving, 5411
recipes, 13346
Sea grant colleges, *see* Colleges and universities.
Sea ice:
Antarctic, strength studies, 119
heat of freezing and melting, 16956
Sea, International Council for Exploration, *see* International Council for Exploration of Sea.
Sea lampreys, *see* Lampreys.
Sea level:
canal site, joint explorations and surveys, agreement with Panama, 12534
Isthmian Canal, construction by nuclear methods, 152
Sea nettles, *see* Jellyfish.
Sea prudente, guia rapida para credito al consumidor, 1606
Sea urchins:
echinoid distribution and habits, Key Largo Coral Reef Preserve, Fla., 1461
eocene echinoids from Barbados, 18097
Sea water:
concentrates, calcium sulfate solubility at temperatures from ambient to 65° C., 10676
conversion—
combination nuclear power and desalting plant, engineering and economic feasibility study, 5412, 6863–64
conceptual design of desalination plants, 846–847, 2111, 6055, 6058–59, 9034, 10662–664, 12042–43, 12045, 12055, 13430, 16370
dropwise condensation characteristics of permanent hydrophobic systems, 9041
evaporators, optimum brine heater outlet temperature, 12053
freezing, research, 10672
laminar dispersion in capillaries and counterflow transport, 851
membrane technology, bibliography, 6066
mineral by-products, 17737
precipitation processes for removal of scale formers, 10677
report, 16371
research program 1967 review, hearing, 8671
reverse osmosis plant, design study, 9038
saline water systems, thermophysical properties, 12054
scale control for distillation plants, 9543
solar stills, study and field evaluation progress, 10675
Sea water—Continued
conversion—continued
vapor compression distillation using secondary heat transfer media, 6063
vapor reheat liquid-liquid heat exchange process, 14772
desalination—
electrosorption and desorption, of sea water, 16373
freezing and reverse osmosis, 7516
necessity for research (remarks), 7510
nuclear equipment of low capacity, USSR study, 2220
nuclear power installation application with simultaneous production of electric power, USSR study, 2210
polyelectrolyte complexes as reverse osmosis and ion-selective membranes, 6064
reverse osmosis systems, 9042
desalting—
engineering development of low-cost processes (remarks), 13432
ion-selective membranes, improved, development, 16376
northern New Jersey and New York City, engineering study, 16378
nuclear energy, 15548
plant in California, construction, report, 16145
water by freezing, heat calculation of equipment, USSR study, 4649
desalting, agreement with—
Mexico and International Atomic Energy Agency, 2582
Saudi Arabia, 8074
desorption of carbon dioxide and oxygen, 12048
determination of dissolved gases, statistical evaluation of gas chromatography, 12428
dual-purpose desalinization systems, use of Beloyarsk atomic plant reactors, 2198
hydrochemical determinations, USSR studies, 2165
ice, migration of liquid inclusions in single crystals, 6833
multicomponent ion exchange in fixed beds, operated under equilibrium conditions, 12050
nuclear power-desalting, large-scale combination project—
hearing, 17150
report, 17497
nucleation and growth of ice crystals, 4552
relation of salt water to fresh ground water (series), 10648
reverse osmosis for desalination, 852, 17739
salinity, table of sigma-t with intervals of 0.1, 7441
salt-water encroachment in southern Nassau and southeastern Queens Counties, Long Island, N.Y., 10648
samples from Bay of Panama, adsorption of surface-active material at surface of water, 6544
solar distillation utilising multiple-effect humidification, 14770
solar stills, study and field evaluation, progress, 4550
temperature and salinity, Atlantic Coast, 3991
Seabees, naval construction battalions, 25th anniversary, commemorative medal, reports, 17322, 17549
Seaboard Air Line RR., accidents, 12082, 12084
Seaborg, Glenn T.:
addresses, etc.—
Nov. 8, 1965, 162
Nov. 18, 1965, 170
Nov. 19, 1965, 169
Dec. 4, 1965, 164
Dec. 6, 1965, 168
Jan. 7, 1966, 3856
Jan. 13, 1966, 3858

Seaborg, Glenn T.—Continued
addresses, etc.—continued
Jan. 17, 1966, 3860
Feb. 17, 1966, 5425
Feb. 21, 1966, 5426
Mar. 1, 1966, 5423
Mar. 10, 1966, 5418
Apr. 22, 1966, 8305
May 3, 1966, 8300
May 4, 1966, 8298
May 20, 1966, 9934
May 28, 1966, 9935
June 7, 1966, 9932
June 10, 1966, 9931
Aug. 23, 1966, 12687
Sept. 13, 1966, 14238, 14242
Sept. 22, 1966, 15543
Sept. 23, 1966, 15545
Sept. 28, 1966, 15544
Oct. 5, 1966, 15541
Oct. 6, 1966, 15542
Oct. 14, 1966, 16977, 16980
Oct. 19, 1966, 16979
Oct. 21, 1966, 15540
Sea food, heirloom recipes to treasure, 16299
Seafood, *see* Sea food.
Seal of United States, *see* Seals (numismatics).
Sealers, Federal item identification guides for supply cataloging, supplements, 2937
Sealift magazine, 3495
Sealing:
building construction materials and practices, Army technical manual, 3832
flexible plastic ring assembly makes durable shaft seal, 2386
metal ring seal prevents gas leakage, 17896
Sealing compounds, bismuth alloy potting seals aluminum connector in cryogenic application, 7792
Seals (animals):
fur seal act of 1966—
hearings, 17390
reports, 11764, 15935, 17310
fur seal sales, investigation, Pribilof Islands, Alaska, hearing, 7215
fur seals, Pribilof Islands, protect and conserve—
hearings, 10336, 17390
reports, 11764, 15935, 17310
pelagic fur seal investigations, 5964
Seals (impressions, fasteners, etc.):
improved poppet valve provides positive damageproof seal, 2381
pressure responsive seal handles static and dynamic loads, 2378
Seals (numismatics):
great seal of United States, control, report, 17245
Senate, history, print revised edition, report, 16073
Seals and glands:
bellows-type seal, use of fluid damping to reduce fatigue failures, 11041
bimetallic devices maintain constant sealing forces down to cryogenic temperatures, 13760
diffusion bonding makes strong seal at flanged connector, 11042
dynamic shaft seal reliability, improved by intermediate rotating ring, 9488
gas ingestion and sealing capacity of helicol groove fluid film seal (viscoseal) using sodium and water as sealed fluids, 7666
helical groove fluid film seal (viscoseal), end effect and pressure patterns, 1262
high-pressure, low temperature electrical connector makes no-leak seal, 7750
O-rings with Mylar back-up provide high-pressure cryogenic seal, 12319
pressure seal ring may be effective over wide temperature range, 11005
pressure-welded flange assembly provides leaktight seal at reduced bolt loads, 11039
Seals and glands—Continued
seal surfaces protected during assembly, 12308
undamped bellows face seals in cryogenic fluid, dynamic instability, 4944
Seamans, Robert C., Jr.:
lecture, Mar. 15, 1966, 12379
nomination, hearing, 4208
Seamanship, *see* Navigation.
Seamen, *see* Sailors.
Search for oral health, highlights of dental research, 5212
Sears, Horace E., world grain trade, 17680
Seas, *see* Ocean.
Sensickness, *see* Motion sickness.
Seasonal reconstruction of wind field in stratosphere, 2443
Seasonal twig growth of southern browse plants, 5988
Seasonal variation of nightglow Na 1 5890–A, (01) 5577 A and (01) 6300 in tropics, 5019
Seasonal variations (economics):
seasonal adjustment of economic time series, spectral analysis and parametric methods, 273
seasonal factor method of BLS (1966), description, application on electronic computer, 13592
X–II variant of census method II seasonal adjustment program, 271
Seasonal variations in human parotid fluid flow rate in subtropical climate, 6813
Seasoning of wood, *see* Lumber.
Seats:
airline, heading and face injury potential during crash decelerations, 14243
UH–1D aircrew armored, crash survival analyses, 139
Seattle, Wash.:
area wage survey, 2300
elementary and secondary education amendments of 1966, hearing, 17373
principal electric facilities, map, 7377
reduced defense spending, potential impact, 14207
Seawalls, *see* Walls.
Seaway pilot dispatch system, district 1, operations manual, 4001
Seaweeds, control, reports, 17556
SEC, *see* Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio—Securities and Exchange Commission.
Seckler-Hudson, Catheryn, Federal textbook on citizenship, our Constitution and Government, 7504
Second-order astronomical position:
determination manual, 314
errata, 5530
Secondary education:
act of 1965—
aid to strengthen and improve educational quality and opportunities, profile of ESEA, 5881
education of handicapped children and youth, possibilities and plans, conference report, 10421
instructions for title 1, 1967 application forms, 14554
PACE, projects to advance creativity in education—
projects approved, 10429
supplementary centers and services, etc., 5879
disaster areas, financial assistance, law, 415
elementary and secondary education act—
amendments of 1966—
hearings, 13028, 14416, 17373
reports, 12989, 15924, 17342, 17499
hearings, 13226
progress under title 4, back to drawing boards, 13267
Ministry of Higher and Secondary Specialized Education, USSR, 3 recent orders, 7566

239-221—67—No. 863——35

Secondary education—Continued
population with high school education or more, by counties of United States, 1960, map, 9972
specialized, improve training of specialists and perfecting leadership, USSR study, 16470
Upward Bound, war on talent waste, 10407
Secondary schools, *see* High schools.
Secret Service:
centennial medals—
law, 11578
report, 11773
Secretaries:
employment outlook, 9279
opportunities in State Department, 8067
Secretary of State, *see* State Department.
Secretary's Advisory Committee on Management of National Institutes of Health Research Contracts and Grants, report, 10656
Securities:
act of 1933—
amend, hearings, 8768
regulations S–X, 18090
releases, SEC, 3497
dealers, relationships under banking act of 1933, regulations, 4391, 14642
amendment, 8925
foreign, interest equalization tax act—
extend—
legislative history, 4150
Senate amdts., summary, 1881
legislative history, 17398
income resulting from lapse of options written as parts of straddles, income tax treatment, report, 4153
publications, price list, 17993
salesmen, employment outlook, 9273
traded on exchanges, annual listing, 8016
quarterly supplement, 3499
transactions and holdings, 3291
see also Government securities
Securities and Exchange Commission:
appropriations, 1967, hearings, 8651, 13193
companies filing annual report, directory, 15321
investment advisers act releases, 3086
investment company act releases, 3087
member, nomination of Francis M. Wheat, hearing, 10330
news digest, 3269
press releases, 3405
releases, 2637, 2801, 3042, 3157, 3497–98, 3538, 3625
report—
departmental edition, 5134
document edition, 4061
rules of practice, rules relating to investigations and code of behavior governing ex parte communications, 12498
statistical bulletin, 3537
Securities exchanges:
act of 1934—
amend, hearings, 8768
companies filing annual reports, directory, 15321
regulation S–X, 18090
releases, SEC, 3498
code of Federal regulations, 8920
Security, *see* Civilian defense—National security.
Security and Consular Affairs Bureau, policies, practices, and procedures, etc., hearings, 7223, 8781, 11820
Security violations don't just happen, they are caused!, 14523
Sedgewick, C. H. Wallace, natural gas liquids, census of mineral industries, 9951
Sedimentary rocks, iron-rich, chemistry, 4520
Sedimentation and deposition:
carbon deposition for thermal recovery of petroleum, statistical approach to research, 7715
channel and hillslope processes, semiarid area, New Mexico, 12019
clastic sedimentation in Deep Springs Valley, Calif., 817
cleanup and confirmation of identity of pesticide residues by thin-layer chromatography, 14113
deposition, loess-mantled Great Plains, Medicine Creek drainage basin, Nebr., 17717
erosion and sedimentation in semiarid environment (series), 817, 12019, 17717
fluvial sediment in—
Little Arkansas River basin, Kans., 14754
Little Blue River basin, Nebr. and Kans., 17728
Heart River drainage basin, N. Dak., 14755
organic matter in abyssal sediments of Black Sea, USSR study, 6149
sediment—
environmental radiation surveillance, sample preparation, 15277
investigations of Mississippi River at St. Louis, Mo., 17729
transport in alluvial channels (series), 13407
transport problem, general physics approach, 12021
yield of Castaic watershed, Calif., quantitative geomorphic approach, 2103
sedimentation in—
Brownell Creek subwatershed 1, Nebr., 16363
small drainage basins (series), 14754, 16363
total bed-material discharge in alluvial channels, 4526
See the United States, market in Great Britain for travel to U.S., main findings of study, 1527
Seebeck coefficients, *see* Coefficients.
Seed crops, *see* Crops.
Seedbeds, shortleaf pine stands 5 years after seedfall on prepared sites, 5989
Seeded reactors, *see* Reactors (atomic).
Seeding, *see* Forest planting—Sowing.
Seedlings, *see* names of plants or trees.
Seeds:
atomic-irradiated seeds, changes you can expect, 5428
blue spruce, performance of 7 seed sources, 14704
Federal seed act, amend—
hearing, 15952
reports, 15912, 16152
Federal seed act, general information, 14510
field, acreage, yield, production, etc., 5175
foreign agriculture circulars, 2987
germination, light effects, experiments, etc., 8150
radiation experiments—
9th and 10th grade students, 5420
students beyond 10th grade, 5421
seed crops—
forecast, 3500
prices, 3501
stock report, 3502
southern pine, cone and seed yields from controlled breeding, 10610
treated seed, labeling requirements under Federal seed act, 4234
see also Conifers—Grasses—Planters (seed)—*also* names of plants.
Seefeldt, August C., relief, 16033
Seefeldt, Merritt A., relief, 16033
Seefer, Richard G., unused manpower, Nation's loss, 16514
Seeman, J. S., deck motion simulator program, 16671

Seepage, rain, building decay associated with, 16942
Segmented ball valve is easy to open and close, 11002
Segregation, *see* Race problems.
Seguro hipotecario de la vivienda de la FHA, 7368
Seidel, Kenneth W., seeding shortleaf pine in Missouri Ozarks, 10592
Seiden, Jacob, research review, Office of Aerospace Research, 3471
Seiff, Alvin, minimization of heat input for manned vehicles entering atmosphere, 9544
Seismic measurements:
multiply reflected waves during vertical seismic profiling, USSR study, 13451
strong motion, Nevada test site—
Project Dugout, 1682
Project Pre-Schooner, 1681
Seismic waves, *see* Tsunami (tidal wave).
Seismicity, *see* Seismology.
Seismographs, seismometer designed for remote operation in random orientation, 7761
Seismography, *see* Seismology.
Seismology:
earth's crust structure determined by study of seismic waves, USSR study, 4664
ground motion and containment, Project Dribble, 5415
ground shock effects due to Rayleigh waves generated by sonic booms, 9424
moon, problems of seismic studies, USSR study, 6104
seismic decoupling of nuclear level, experiment, Project Dribble, Salmon event, Vela Uniform program, Tatum Salt Dome, Miss., 3850–53, 5414–16, 6868
seismic design for buildings, Army technical manual, 14223
seismic survey, northwest Greenland, 15509
seismicity of Alaska, 12763
seismography, USSR study, 2271
seismological bulletin (periodical), 3503
Antarctic, 2680
engineering, 3439
South Pole-Byrd supplement, 3504
see also Earthquakes.
Seismometers, *see* Seismographs.
Selberg, Bruce P., shock tube determination of drag coefficient of small spherical particles, 7739
Selby, Rose T., arbitration procedures, 10858
Selective service, *see* Conscription.
Selective Service Board, appropriations, 1967, hearings, 13193
Selective Service System:
administration and operation, review—
hearings, 13020
interim report, 13021
appropriations, 1966, supplemental, proposal, 5608
appropriations, 1967, hearings, 8651
brief description, 5682
local board memoranda, 3162
local boards and appeal boards, increase compensation, hearing, 10258
present operations of system, including local draft boards, memorandum, 5720
regulations, 3512
report, 1965, 11216
Selenides, yttrium, thermoelectric properties, 17860
Selenium:
mineral market report, quarterly, 3513
radiochemistry, 1679
use as bonding agent for light-activated switch, 1205
Selenium isotopes, radiochemistry, 1679
Self-employed, *see* Employment.
Self-enumeration as method for 1970 census of housing, 12731
Self-organizing systems, 1963, papers, 7969
Selke, George, dinner honoring, sponsored by Ft. Snelling Historical State Park Association (remarks), 1604
Selling, *see* Salesmen and salesmanship.
Selling to AEC, 15546
Selling to Navy prime contractors, 1387
Sells, S. B., psychological measures used in health examination survey of children, 8004
Semantics, USSR study, 17770
Semenko, Mykola P., biography, USSR, 13479
Semenov, N. N., Soviet chemical scientist, biographical sketch, 14882
Semi-atomistic model for flaw-induced fracture in nonductile materials, 9439
Semiautomatic device tests components with biaxial leads, 13772
Semicircular canals, role of vestibular organs in exploration of space, 6353
Semiconductor counters:
lithium-drifted silicon surface-barrier, manufacture, 15166
symposium, Mar. 2–4, 1966, abstracts, 5020
Semiconductors:
devices—
superior photoengraving process, 16607
USSR all-Union scientific session devoted to radio day, 14828
forms biomedical radiation probe, 12297
medium- and high-power monocrystal rectifiers, USSR studies, 13545
radiation used to temperature compensate semiconductor strain gages, 10995
single-crystal—
films grown on foreign substrates, 11019
rectifiers of medium and high power, East German study, 12136
surface characteristics, apparatus presents visual display, 9491
thin-film semiconductor rectifier has improved properties, 4849
Seminar on Manpower Policy and Program, proceedings, 1081, 6252
Senate:
appropriations, 1967, legislative—
amendments, 11699
hearings, 16171
law, 15727
reports, 13168, 14395
calendar, executive, 3144
calendar of business, 3128
committee funds authorized and expended for inquiries and investigations, staff study, 5825
delegation—
6th Mexico-United States Interparliamentary Group, meeting report, 10344
visit to Japan, India, Pakistan, Afghanistan, and Israel, report, 5811
general information, 10275
journal, 89th Cong., 1st sess., 4157
journal of executive proceedings, 89th Cong., 1st sess., 1883
index, 4156
Members, nomination and election, Federal and State laws, summary, 10276
print as Senate document, report, 10294
seals, history, print revised edition, report, 16073
Secretary Johnston, tributes upon retirement, 540
Secretary, reports, 5717, 14450
standing rules, study, authorization, report, 4202
telephone directories, 536, 10274
travel regulations, 8790
Senate documents, 537–541, 1884–86, 4158–61, 5716–20, 7171–72, 8688–91, 10276, 11697–699, 13064–69, 14447–451, 17403–408
Senate executive documents, 7173–74, 10277, 13070–91, 14451–452, 15999–16000
Senate executive reports, 1887, 10278–279, 16001–2

Senate reports:
private bills, 542, 1888–1908, 5721–50, 7175, 8692–8721, 11700–734, 13092–122, 16003–64, 17409–458
public bills, 543–564, 1909–25, 4162–4207, 5751–91, 7176–97, 8722–59, 10280–321, 11735–783, 13123–188, 14453–468, 16065–167, 17459–562
Senders, J. W., visual sampling behavior of human observers, 9408
Senegal:
background notes, 8050
mineral industry, minerals yearbook chapter, 2342
Seney National Wildlife Refuge, general information, 16300
Senior citizens, *see* Aged—Aging.
Senior Citizens Month, new day for older American, guide to community action, 9617
Senra, Antonio J., and wife, relief, 15670
Sense organs, sensory disease, film guide, 13976
Sensitivity:
antibiotic, and 'phage type of staphylococci isolated from monkeys and their human handlers, 8207
color, differential in purple region, 6284
noncontacting vibration transducer has constant sensitivity, 4885
short-period tracking data from lunar satellite to lunar gravitational field harmonics, 1271
Sensors:
detects hydrocarbon oil contaminants in fluid lines, 6394
earth-observation spacecraft, sensor requirements and experiments, 16604
flight type oxygen partial pressure sensor, 15046
passive environmental, use in testing human sensitivity to vibrotactile stimulation, 3784
photovoltaic solar, use in spacecraft orientation control systems, 6447
remote, surface-fitting program for areally-distributed data, 1182
temperature, electrically conductive fibers thermally isolate, 13784
X–15 spherical, hypersonic flow-direction, characteristics, 1253
Sentences (legal):
appellate review, provide, hearings, 10352
sentencing and parole process, 14081
Seo, Kenzo, optimal property of sequential decision procedures related to Bayes solutions, 9410
Separation (military):
disability separation, facts for your future, 14205
Separation processes:
combustion chamber inlet manifold separates vapor from liquid, 6378
quantitative separations, report, 5012
automatic fluid separator supplies own driving power, 4845
centrifugal, industrial plant equipment handbook, 13247
see also Magnetic separators—Pneumatic separators.
Sequatchie River and Valley, economic and resource development, summary, 2610
Sequential decision rules for multiple choice problem, 9411
Sequential tests, optimal property of decision procedures related to Bayes solutions, 9410
Serbo-Croatian language, Foreign Service Institute basic course, 6639
Serial set (congressional), 366–369, 1784–86, 4034–36, 5566–68, 7019, 8446–48, 10054–57, 11532, 12801, 14332–333, 15665–667
Serials:
copyrighted, catalog of copyright entries, 4238
National Bureau of Standards Library, 12384
new serial titles—
alphabetical arrangement, 3266
classed subject arrangement, 3265
Series ISPO 1, 3937–38, 6937, 15506, 17012
Seriemitsos, Peter, intensities and charge composition of low energy electrons at balloon altitudes, 2413
Serology, toxic and serological shifts in blood of burned animals, USSR study, 14879
Serpan, C. Z., jr., radiation damage surveillance of power reactor pressure vessels, 12430
Serpentine, sepentinites from crest of Arabian-Indian ridge, 12189
Serpentinites, *see* Serpentine.
Serra das Varas, Brazil, marshes, 9165
SERT–I, *see* Spacecraft.
Serum and serumtherapy:
calcium determination in weightless state, 6810
cholesterol and glycerides in human serum, simplified test tube method for analysis, 12640
corticosteroid levels, prednisolone and triamcinolone effects, 9868
fluorescent-serological technique for studies on B.anthracis and B.cereus antigens, USSR, 10833
human serum—
lipids, analysis for clinical investigation, 1620
precipitation production in rabbits, variation in response to primary injections, 9870
precipitin response by rabbit population, comparison of stresses, 8218
serum and parotid fluid free 17-hydroxycorticosteroid levels in acute and chronic rental failure, 1627
see also Biological products.
Servants:
employment outlook, 9243
social security—
coverage for household employees, 12510
good news for household workers, 15328
household employer's tax guide, 855
women private-household workers, fact sheet, 6705
Service, Alfred L., evaluation of western phosphate industry and its resources, 13691
Service and regulatory announcements, Consumer and Marketing Service, 1955, 4235–36, 7245–46, 10376, 11837, 16203
Service contract act of 1965, *see* Government contracts.
Service Corps of Retired Executives, how volunteer members aid small businesses, 6600
Service establishments, employment of full-time students at special minimum wages, regulations under fair labor standards act, 14072
Service industries:
census, 1963, selected services—
area statistics, advance reports, 2737
summary statistics, advance reports, 2738
East European, translations, 3605
machines, census of manufactures, 1963, industry statistics, 6911
Service-station attendants, employment outlook, 9210
Service stations, employee earnings and hours in retail gasoline service stations, 13613

Service trades:
  Alaska, 1963, special census report, 6886
  census of business, 1963—
    area statistics, 197–198, 3877–80, 6884
    employment size, selected services, 200
    legal form of organization, 202
    receipts size, 199
    single units and multiunits, 201
    subject reports, 199–203, 1699, 6885
  equipment, Federal item identification guides for supply cataloging, supplements, 2934
  recordkeeping systems, bibliography, 1458, 9643
  training in service occupations under manpower development and training act, 7642
Service, USDA's report to consumers, 3514
Servicemen, *see* Armed Forces—Mechanics (persons).
Servomechanisms:
  altimeter displays, evaluation, final report, 7975
  miniature accelerometer, force-balanced, 1216
SESOC Advisory Committee, *see* Surface Effect Ships for Ocean Commerce Advisory Committee.
Setien, Alberto J. E. Oteiza, *see* Oteiza, Alberto.
Settlement of Investment Disputes, International Center, *see* International Center for Settlement of Investment Disputes.
Sever, Bruce B., market factors in Panama, 12784
Severance, Roger D., market for U.S. products in Iran, 7526
Severance pay, *see* Wages.
Severin, R. Keith, Bulgaria's agricultural economy in brief, 627
Sewage:
  community treatment needs under construction grants program, 7429
  disposal by Federal installations, report, 12913
  disposal system, agreement with Canada, 15372
  sanitary and industrial waste sewers, Army technical manual, change, 5369
  separating storm and sanitary sewers in urban renewal, report, 15847
  sewage and water works construction, contract awards, 16292
  sewer bond sales, 11964
  sewer facilities, grant program, guide, 6048
  sewer pipe in sewerage utilities, regional requirements, 5435
  sewer system as provided under Housing and urban development act of 1965, Federal grant assistance, 4541, 6049
  sewer works construction, labor and material requirements, 16534
  treatment equipment, Federal item identification guides for supply cataloging, supplements, 2935
  treatment plants, Army technical manual, 9906
  water and sewage plant operations, training course, 2635
  water and sewer facilities grant program, HUD information series, 6049
Seward Peninsula, tin-lode investigations, Cape Mountain area, 6323
Sewer pipe, *see* Pipe and pipe fittings.
Sewerage, *see* Sewage.
Sewers, *see* Sewage.
Sewing machines:
  how to teach, use and care, general information, 3764
  industrial, industrial plant equipment handbook, 7257
Sex:
  evolutionary role of division into 2 sexes, USSR study, 14846
  migration of population by sex (series), 631, 7295
  projections of white and nonwhite population to 1985, by sex, 14275
  revised projection of population to 1985 by sex, 6927
  why 2 sexes, USSR translation, 9160
Sex attractants, *see* Insect attractants.
Sextants:
  measures spacecraft altitude without gravitational reference, 7797
  optical-inertial space, for advanced space navigation, 10964
  sighting performance in measuring angle between stationary simulated star and stationary blinking light, 13822
SFCSI, special foreign currency science information program, 6978–79
Sferics, papers, 1536
Shackelford, James M., bibliography of membrane technology pertaining to saline water desalination, 6066
Shacklette, Hansford T., phytoecology of greenstone habitat, 13396
Shad, juvenile American shad populations, comparative study by fin ray and scute counts, 7442
Shade trees, *see* Trees.
Shadomaster measuring projectors, duty-free entry, 376
Shafey, Shreif, relief, 17429
Shaffer, Paul F., packaging produce at central warehouse, 1589
Shaffer Trucking, Inc., accident, 9057
Shaft sinking, presplitting flood control gate shaft, Littleville Dam, Huntington, Mass., mining method, etc., 1110
Shafts:
  dynamic shaft seal reliability, improved by intermediate rotating ring, 9488
  encoder presents digital output, 17902
  flexible plastic ring assembly makes durable shaft seal, 2386
  plugged hollow shaft makes fatigue-resistant shear pin, 6403
  rotating, friction device damps linear motion, 4867
  torque, noncontacting transducer measures, 6374
Shahbender, R., laminated ferrite memory, 9393
Shale:
  Mancos, Juana Lopez member, in San Juan Basin, N. Mex., stratigraphy, 9014
  organic-rich, or United States and world land areas, 2102
  shelf and eugeosynclinal black shales, element distribution, 10632
  see also Oil shale.
Shale oil, components, methylpyrroles, butylpyrroles, and isopropylpyrroles, thermal reactions, 6314
Shanklin, Edward H., comparative effects of experimental and conventional seed cotton drying system on cotton fiber properties, 6755
Shanley, F. R., ceramics as structural materials, 17883
Shannon, Ira L.:
  glucose tolerance responses in young adults of sharply contrasting periodontal status, 6815
  increased caries resistance associated with higher parotid fluid flow rate, 9866
  parotid fluid—
    corticosteroid response in normal subjects during dexamethasone suppression tests, 11383
    steroid and electrolyte responses to exercise, 8219
    uric acid responses to probenecid administration, etc., on artificial kidney, 9874

Shannon, Ira L.—Continued
physiologic chemistry of human oral secretions—
total protein content of parotid fluid, 11379
uric acid content of parotid fluid, 9869
protection of enamel surfaces by stannous fluoride prophylaxis pastes, 6816
protective performance of stannous fluoride-zirconium silicate prophylaxis pastes, 8208
seasonal variations in human parotid fluid flow rate in subtropical climate, 6813
Shapes, learning different shapes, games for children over 2 years old, guide for parents, 8165
Shapes (metal):
Federal item identification guides for supply cataloging, supplements, 2935
structural, lifting clamp positively grips, 10989
Shapiro, Bernard, ascorbic acid protection against inactivation of lysozyme and adolase by ionizing radiation, 1625
Shapiro, H., mass spectrometric analysis of DC 704 diffusion-pump oil fragmentation, 1248
Shapiro, P., calculations on uniform-field bending magnets, 1359
Shapiro, Sidney:
fisheries of—
Chile, 7433
Japan, 10523
Norway, 7434
Shapiro, Sidney S., and wife, relief, 13120, 14347
Sharks:
fishing gear, historical review, 10526
general information, 4404
Sharp, A. L., development of procedure for estimating effects of land and watershed treatment on streamflow, 8171
Sharp, Freeman W., passports and right to travel, 17378
Shaw, William H.:
remarks—
June 22, 1966, 11526
Aug. 17, 1966, 14321
Sept. 30, 1966, 15642
Oct. 1, 1966, 15657
Oct. 13, 1966, 15644, 15652
Shaw, Miss., motor carrier accident, 6093
Shaw Junior High School:
early land acquisition—
law, 15746
reports, 12916, 17486
Shawe, Daniel R., beryllium content of volcanic rocks, 9012
Shawsheen, Mass., railroad accident, 6096
Shchuchinski, Louis, relief, 5738, 7022
Shea, E. P., corrosion in carbon steel heat transfer surfaces, 4557
Shea, R. A., visual detection of point source targets, 15065
Shear (mechanics):
plugged hollow shaft makes fatigue-resistant shear pin, 6403
Sheck See Hom, *see* Hom Sheck See, and wife
Sheds, storage for fertilizer, 40 ton capacity, 14146
Sheehan, W. C., ion-selective membranes for desalting water, 16376
Sheep:
foot rot, 14136
on feed, 6663–64, 8091
production, use chemicals safely, 9831
raising small flock, 12600
scabies eradication activities, 3725
scrapie seminar, report, 11338
stocker and feeder, shipments, 3515
tick-borne encephalitis virus, experimental infection, USSR study, 1001
see also Bighorn sheep.
Sheep ranches, *see* Ranches.
Sheep ranges, *see* Range lands.
Sheet glass, *see* Glass.
Sheet metal:
Federal item identification guides for supply cataloging, supplements, 2935
heating of bilayer sheet in welding with laser beam, USSR study, 16463
parts, large, formed by explosive force of primacord grid, 4851
strip unrolls to form circular boom, 4869
weld edge, forming by electrical upsetting, 11040
Sheet metal workers:
employment outlook, 9275
supervisor, examination announcement, 9993
Sheet-plastics, use for inert-gas welding, etc., enclosure, 1214
Sheets, current industrial reports, 263
Sheifer, Victor J., supplementary compensation for nonproduction workers, 1963, employer expenditures and practices, 4731
Shekarchi, E.:
mineral industry of—
Ceylon, 1118
Cyprus, 1120
Ethiopia, 7692
Iran, 4766
Israel, 4768, 15016
Jordan, 4770, 15017
Pakistan, 4772
Republic of Sudan, 6304
Syrian Arab Republic, 4778, 17848
Turkey, 6308
Shelbyville Dam, spillway and outlet works, hydraulic model investigation, 11897
Sheldahl, Robert E., effect of discontinuities in surface catalytic activity on laminar heat transfer, etc., 15198
Sheldon, John W.:
atomic beam determination of cesium-cesium total scattering cross section, 2436
cross section for impact ionization of H(1s) atoms by H(1s) atoms near threshold, 2420
Shell model, *see* Excitation curve.
Shellfish:
Alabama landings, 2672, 13339
California landings, 2724
depuration plant design, 13962
fish go in schools, use in school lunches, 4403
Florida landings, 2980, 10522
Georgia landings, 3022, 16296
growing areas, sanitation manual, 5112
Louisiana landings, 3171
Maine landings, 3174, 10520
Maryland landings, 3185, 13338
Massachusetts landings, 3186
Mississippi landings, 3205, 13340
New Jersey landings, 3260, 10519
New York landings, 3267, 8984
North Carolina landings, 3276, 13335
Rhode Island landings, 3480, 8936
sanitation research, Northwest planning conference, proceedings, 2526, 15276
shippers, list, 2742
South Carolina landings, 3522, 13336
Texas landings, 3575, 13337
Virginia landings, 3683, 16295
Shells (aircraft):
anisotropic viscoelastic sandwich shells, 6344
sandwich shells of revolution, local stability, 6474
theoretical elastic mismatch stresses, 4975
Shells (structural):
aerodynamic characteristics of tension shell shapes at Mach 3.0, 16690
analytical mechanics, fundamentals, 1281
complete spherical, buckling, 15057
complex structures, response of aerodynamic noise, 9423
conical, with free edges, flexural vibrations, 6335

Shells (structural)—Continued
cylindrical—
analytical methods used to determine modal characteristics, 16618
and hemispherical, axisymmetric response to time-dependent loading, 15069
boundary conditions influence on buckling load under axial compression, 15061
buckling of end closures by internal pressure, 13718
sandwich construction, buckling, effect of face-sheet stiffness, 11074
fiberglass container shells form contamination-free storage units, 11011
paraboloidal thin-walled thermal distortions, 15161
spherical—
segments vibration, Green's function approach, 16611
shell with non-axisymmetric boundary, analysis, 16595
stress near curvilinear holes in shells, 9547
stressed state near curvilinear orifices, 9548
tension shell entry configuration, longitudinal aerodynamic characteristics, 15159
thin-shell—
construction, Army technical manual, 1651
theory, dual formulation, 15067
Shelter belts, tree planters' notes, 2081, 6000, 8979, 10615
Shelters (air raid), *see* Air raid shelters.
Shelters (protective), *see* Protective shelters.
Shelterwood harvest methods and results for coniferous species, 1930–64, 10613
Shelton, Robert M., proceedings against, citing for contempt, report, 4092
Shenkel, William M., unfinished but habitable home, 839
Shenyang, Manchuria, *see* Mukden, Manchuria, China.
Shepard, Harold H., fertilizer situation for 1965–66, nitrogen, phosphate, potash, 8141
Shepardson, Chas. N., remarks, Jan. 29, 1966, 4390
Sheppard, Richard A., potash feldspar of possible economic value in Barstow formation, San Bernardino County, Calif., 2094
Sherer, Alan D., analysis of linearized supersonic flow about pointed bodies of revolution by method of characteristics, 16659
Sheridan, Eugene T.:
coke and coal chemicals, 14998
coke producers in U.S., 15002
fuel briquets and packaged fuel, 15006
peat, 16568
Sheridan, Matthew J., mineral industry of Nebraska, 1135
Sheridan, William H.:
legal bibliography for juvenile and family courts, 9974
standards for juvenile and family courts, 9976
Sheridan County, Wyo., ground water resources, 12029
Sherman, Kenneth, zooplankton in coastal waters of Gulf of Maine, 13349
Sherman, May:
comparative, veterinary, and primate cardiovascular research, 5026
heart disease and the psyche, 12472
rheumatic fever and rheumatic heart disease, etc., 18076
Sherrill, William W., nomination, hearing, 5800
Sherwood, T. K.:
research on saline water conversion by freezing, 10672
saline water conversion by freezing and reverse osmosis, 7516
Shettel, Harris H., evaluation of existing criteria for judging quality of science exhibits, 8295
Sheung Wan Ng, *see* Ng, Sheung Wan.
Shiawassee National Wildlife Refuge, general information, 10535
Shideler, John L., flutter at Mach 3 of thermally stressed panels, etc., 13817
Shielding:
clamshell-type heat shield, motion on deployment from parent vehicle, 7831
heat-shield char-front recession, determination with nucleonic technique, 9511
shrinkable sleeve eliminates shielding gap in RF cable, 4880
spacecraft, deployed-heat-shield impact attenuation systems, landing characteristics, 4901
X-ray, medical and dental, guidance for design, 16962
Shields, William R., Analytical Mass Spectrometry Section, instrumentation, etc., 15209
Shields, magnetic, circular, facilitates electron beam welding of coppermonel, 11009
Shigo, Alex L.:
decay and discoloration following logging wounds on northern hardwoods, 11994
organism interactions in decay and discoloration in beech, birch, and maple, 8974
Shiller, William R., aerodontalgia under hyperbaric conditions, 14995
Ship models (Church decoration) duty-free entry for Lutheran Church of the Covenant, 17186
Ship mortgage insurance fund, *see* Federal ship mortgage insurance fund.
Ship Structure Committee, serial no. SSC, 2551, 5135, 9641, 14009–10, 18091
Shipbuilding:
construction differential subsidies, extend 55-percent maximum rate—
hearings, 10256, 11796
law, 15759
reports, 10318, 14402
equipment, census of manufactures, 1963, industry statistics, 8338
Federal ship mortgage insurance, financing of construction, reconstruction, etc., 2310
high-manganese, low-carbon steel for welded heavy-section ship plate, mechanical properties, 14010
history of experimental basin, USSR study, 6247
modern ships for greater prosperity (address), 4745
repairing, shipbuilding and shipbreaking, ventilation for control of flammable atmospheres, maritime safety data, 16524
USSR, 9092
vessel construction, sanitation and ratproofing, standards, handbook, 5106
Shipfitter, 1 & C, Navy training course, 7966
Shipments:
air agricultural commodities, recent trends and prospective developments, 7286
anti-friction bearings, manufacturers shipments, 16988
defense-oriented industries, 1963 census of manufactures, 6915
manufacturers', current industrial reports, 3179
see also names of articles shipped.
Shippers:
and receivers of fresh fruit and vegetables, selected Government services used, 16728
commodity transportation survey, preliminary reports, 212–222, 3909, 5452–53
interstate milk, certification under State-PS cooperative program, 5113
ocean freight rate guidelines, 12770

Shipping:
act of 1916—
and related acts, as amended through 89th Congress, 1st session, compilation, 7156
clarify—
hearings, 572
law, 446
exemptions, reports, 14456, 17293
act of 1916, amend—
hearings, 14478
law, 405
reports, 16109, 17314
acts regulating maritime industry (remarks), 5938
code of Federal regulations, 7405, 8917, 10499, 11936, 16277
critical parts are stored and shipped in environmentally controlled reusable containers, 12300
critical times for American merchant marine (remarks), 702
demands of our Nation (remarks), 4746
domestic offshore and foreign waterborne commerce (remarks), 10477
element in transportation's evolution, development needed (statement), 16549
foreign nations, discriminatory practices, reports, 14479
foreign trade—
summary reports, monthly, 3641
waterborne statistics, monthly report, 3650
waterborne trade area by coastal district, monthly report, 3000
Government generated cargo, impact on U.S.-flag foreign trade fleet, 454
Government regulation and control (remarks), 7370
intercoastal act of 1933, equalize penalties, report, 1916
International maritime traffic, convention, 13086
laws, consolidate and reenact—
hearings, 17575
report, 14457
maritime services, radio stations on land, shipboard, etc., FCC rules and regulations, 2922
military cargoes, prevent use of vessels built or rebuilt outside U.S., etc., restrict shipments to U.S. vessels, hearings, 17575
military cargoes, reduced ocean freight rates, by U.S. flag vessels—
hearings, 14478
reports, 16109, 17314
ocean shipping, conference system and free enterprise (remarks), 7369
regulatory functions of Federal Maritime Commission in country's commerce (address), 700
restrictions on grain sales to Eastern Europe, hearings, 575
statistical classification of U.S. waterborne exports and imports, 8369
trends in marine transportation (remarks), 10904
Vietnam, policy review, hearings, 7155, 10255
weather service, 5230
see also Merchant marine—Transportation—Water carriers.
Shipping clerks, occupations, employment outlook, 0274
Shipping conferences, steamship lines in foreign commerce of U.S., approved conference, rate and interconference agreements, 8900
Shipping containers, *see* Containers.
Ships:
acoustic ray ship positioning and tracking system, 6545
advanced maritime transportation, age of larger, faster ships (lecture), 6280
Ships—Continued
American ships chart America's future (remarks), 10902
and marine equipment, 2940
cargo and miscellaneous vessels, Coast Guard rules and regulations, 10009
Coast Guard authorization for procurement, 1967—
hearings, 5700, 10332
law, 7045
reports, 5675, 7187
Coast Guard examination of foreign passenger vessels—
hearing, 13039
report, 12919
Coast Guard high-endurance vessels, examining planned replacement, etc, GAO report, 6016
collection of fees for services under navigation laws, hearing, 10333
combating noise and sonic vibration, USSR book review, 1047
construction, *see*, in main alphabet, Shipbuilding.
Defense Dept. military procurement appropriations, 1966, report, 17198
electrical systems, Navy, 12419
Federal item identification guides for supply cataloging, supplements, 2940
foreign-flag vessels, transportation of privately owned vehicles, Military Sea Transportation Service, GAO report, 9004
foreign, require cruise licenses, hearings, 13204
ladders used for access in shipyards, maritime safety data, 16521
loan, agreement with Italy, 8073
loan, extension, agreement with—
Canada, 15354
Germany, Federal Republic, 2588
Turkey, 12535
measurement, customs regulations, U.S. laws, etc., 14513
revised pages, 13242
merchant and passenger vessels, load lines, regulations, 8407
merchant fleets of world—
age, size, speed, and draft by frequency groupings, Dec. 31, 1964, statistical analysis, 4747
seagoing steam and motor, 1000 gross tons and over, 16550
merchant ships, U.S. flag, general information, 4748
merchant vessels—
electrical equipment, Coast Guard approved list, 11507
United States, monthly supplement, 3221
military procurement, appropriations, 1966, supplemental—
hearings, 5797, 7117
law, 7031
reports, 5666, 5757, 7079, 7083
military procurement, appropriations, 1967—
hearings, 8766, 10232
law, 11593
reports, 8644, 8744, 12930
mortgage act, 1920, clarify—
hearings, 572
law, 446
motions and drag reduction, naval hydrodynamics symposium, 16753
multi-shaft, placement of screw propellers, USSR study, 2215
naval vessels repaired at Malta, extend visit, agreement, 12531
Navy mooring facility, west coast of Point Loma, Calif., hydraulic model investigation, 5887
notice to mariners, vessel navigation safety, 3279–80, 5059
obsolete vessels, redefining terms for replacement purposes, hearing, 10335

Ships—Continued
ocean survey, Oceanographer, OSS 01, general information, 11903
passenger vessels—
minimum standards, hearings, 13204
rules and regulations, 3996, 14318
position determined by artificial satellites of earth, USSR study, 923
repair services, deployment, agreement with Malta, 8085
scupper drain attachments to vessels in drydock, maritime safety data, 7656
seagoing research vessels, Academy of Sciences, USSR, 6165
service craft, Navy design manual, changes, 1569
shelter deck vessels, measurement of gross and net tonnage, provide, hearing, 10335
small, inland, Great Lakes and western rivers rules, amend—
hearing, 10335
report, 17313
small vessels, simplify admeasurement—
hearing, 10335
law, 15701
report, 11621
surface effect ships for ocean commerce (SESOC), study of technological problems, report, 5561
twin-screw vessel, handiness, effect of lateral components of propeller suction forces, USSR study, 1005
vessel entrances and clearances, summary reports, 3942, 12730
see also Hulls (ships)—Merchant marine—Shipbuilding — Tankers — Warships—*also* names of ships.
Ships Bureau:
journal, 2716
reliability and maintainability training handbook, 2552
Ship's serviceman, *see* Navy.
Shipyards:
accidents, analysis of injuries, 13590
and American merchant marine, facing up to problems (remarks), 1102
earnings, straight-time hourly, indexes of change, monthly, 3057
maritime safety digest (periodical), 3182
reminders to competent person in shipyard operation, safety data, 1085
safety data, maritime, 1085, 4709, 16520–525
fire and explosion hazards, 16522
ladders and other means of access used on vessels, 16521
temporary lights for flammable atmospheres and for general use, 16523
suggested safe practices for shipyard workers, 7660–61
Shirley, Lawrence E., mineral industry of South Carolina, 1143
Shiskin, Julius, X–11 variant of census method II seasonal adjustment program, 271
Shielen, B., autoradiographic examination of airborne fallout, 1413
Shoaling, reduction in Charleston Harbor, 13298
Shock (mechanical):
aftershock mechanism, of earth's crust, USSR study, 10802
dynamic strength ratio as limiting parameter in shock design, 6555
Isthmian Canal studies, safety evaluation for ground shock, 155
measurement, instrumentation limitations, 12427
shock-induced separated flow, wind-tunnel predictions correlated with flight results, 16661
Shock absorbers:
nylon, prevents injury to parachute jumpers, 6404
pneumatic, use of filament wound toroids, 15071
torus elements used for greater effectiveness, 13753
Shock mounts:
long travel—
models 230, etc., impact testing for transportability rail instrumentation, 5378
pallets, modified models 230 and 570, impact testing for transportability, rail instrumentation, 9916
Shock-operated valve would automatically protect fluid systems, 13770
Shock tubes:
bromine dissociation rates in presence of argon, neon, and krypton, investigation, 13821
determination of drag coefficient of small spherical particles, 7739
flow, accelerating particles to hypervelocities, 4934
tailored-interface operation with helium-driven planetary gases, analysis, 12363
Shock waves:
boundary, occurrence, 4941
equilibrium normal shocks, solutions for arbitrary gas mixtures, 4957
ground measurements of shock-wave pressure for fighter airplanes flying at very low altitudes, etc., 12342
in mixtures of carbon dioxide and nitrogen for conditions typical of Mars entry, 6451
measurement of lateral pressure generated from cylindrical explosive charges, 2350
rocks, streak camera method for measuring dynamic equation of state properties, 9386
separated flows induced by shock wave-boundary layer interaction, analytical study, 17875
velocity, measurement by use of microwave technique, 10957
see also Sonic boom.
Shoe stores, *see* Stores.
Shoemaker, Louise P., parent and family life education for low-income families, 6942
Shoes, *see* Boots and shoes.
Shook, Donald F., thermal neutron flux perturbation by dysprosium-aluminum foils in water, etc., 6428
Shoop, Lucille T.:
endocarditis bibliography, 6576
rheumatic fever, glomerulonephritis and streptococcal infections, 18070
Shoot moths, *see* European pine shoot moths.
Shooting:
marksmanship, competitive, training program, National Guard pamphlet, 1304, 12388
small arms ranges, Air Force manual, 16944
Shopper's guide for canned peas, 14149
Shopper's guide to U.S. grades for food, 3750
Shops, *see* Machine shops.
Shore patrol, allowances, management control improvement, GAO report, 2084
Shore protection:
inspection, repair and preservation of waterfront structures, marine biology operational handbook, 5256
studies, engineering and design, manual, 11892
Shoreline areas:
conserve and develop for public use and benefit, report, 8603
Mississippi embayment, emerged quaternary shore lines, 14014
Short, Lester L., jr., new Pliocene stork from Nebraska, 11223

Shorter workweek, selected references, 12199
Shortleaf pine, *see* Pine.
Shoshone County, Idaho, geology of Coeur d'Alene district, 819
Shoshone Indians:
  medicine man, colored poster with—
    French text, 15410
    Spanish text, 15409
Shotts, Reynold Q., coal resources of Fabius-Flat Rock area, Jackson County, Ala., 13680
Shoub, H., doors as barriers to fire and smoke, 7909
Shoulder adapter steadies spot welding gun, 6402
Shrews, Turkey, description and distribution, 1325
Shrewsbury River, zooplankton communities, 7444
Shrimps:
  and shrimp fishery, southern United States, 14654
  bait industry of Gulf of Mexico, 13344
  bait shrimp in Tampa Bay, Fla., 781
  breaded current fishery statistics, 2977
  breaded, 1965, annual summary, 7432
  can-venient ways with shrimp, 13345
  eastern Gulf of Guinea, potential, 4410
  Gulf Coast, data, 3029
  landings, 3516, 10521
    Southern States, 767
  Penaeid, eastern Venezuela, distribution, 748
  radiation pasteurization, 11430
Shrine, Mystic, *see* Ancient Arabic Order of Nobles of Mystic Shrine.
Shrinkage, shrinkable sleeve eliminates shielding gap in RF cable, 4880
Shrubs:
  battle of the bush, eradication, etc., 15471
  desert, in Sedan fallout field, interception and retention of radioactive fallout, 5397
  seedlings, regeneration after controlled burning and herbicidal treatment of pringle manzanita chaparral, 2072
  windbreaks for central Great Plains—
    how to arrange and space, 4487
    how to select, 4486
Shugars, Owen K.:
  commercial tobacco—
    farms, coastal plain, North Carolina, 10412
    livestock farms, Bluegrass area, Ky., 14531
Shuler, R. L., effect of light intensity and thickness of culture solution on oxygen produtcion by algae, 5075
Shulimson, Jack, marines in Lebanon, 1958, 10897
Shumshu Island, USSR heroes of the landing, 2153
Shunt, capacitance, effects on transient effects caused by electron irradiation of polyethylene terephthalate insulated ribbon wire, 7849
Siberia:
  crystal structure in transition zone from Siberian platform to Taymyr downwarp, experience in using industrial explosions, USSR study, 14804
  research, advanced, new academic city is focus, 16458
Siberian elm, *see* Elm.
Sick:
  acute conditions, incidence and associated disability, July 1964–June 1965, in U.S., 6587
  age patterns, United States, 12488
  chronically ill, institutions Apr.–June 1963, U.S. statistics, 1440, 6489
  estimating cost of illness, 13966
  income loss protection against short-term sickness, 1948–64, 1472
  see also Absenteeism.
Sick leave, *see* Leave of absence.
Sickle cell anemia, *see* Anemia.
Sidewalks:
  military installations, geometric design, etc., Army technical manual, 8263
  repair, reimbursement to State, etc.—
    law, 444
    reports, 487, 549
Siding:
  asphalt and tar, current industrial reports, 2817
  corrugated, protected-steel, design criteria, Army technical manual, 3833
Sidley, Norman A., computer system for intraspecies biologic and behavioral variability studies, 12643
Sidransky, Fred S., nonsteady liquid and gas flow, etc., 17931
Siegel, Robert, critical heat flux for saturated pool boiling from horizontal and vertical wires in reduced gravity, 4905
Siegel, William C., U.S. hardwood imports grow as world supplies expand, 2078
Sielaff, Gerald W., introduction to diesel engines 2, study guide, 11840
Sierra-Franco, Miriam, closed drainage of chest, programed course for nurses, 9623
Sierra Leone:
  agricultural commodities, agreements, 11272, 16859
  background notes, 12517
  gazetteer, official standard names, 14744
  mineral industry, minerals yearbook chapter, 1142
Sierra Nevada:
  central, stratigraphy and structure of Dinkey Creek roof pendant, 10645
  north central, broadcast burn in 2d growth clearcuttings, 17686
Sight:
  ametropia, physiologic variations of depth of anterior chamber, 5328
  auxiliary stimuli, effect of intensity changes on auditory and visual signal detection, 5317
  color mixture functions at low luminance levels, 6281
  differential color sensitivity in purple region, 6284
  disorders, summary of research progress, 1313, 16809
  flashblindness experiment in flight simulator, 5331
  partially seeing and blind children, educational programs, 8839
  underwater, estimation of size and distance, 13664
  vision screening in selected classes for mentally retarded, Detroit, Mich., 14283
  visual accommodation system in humans, 16612
Sighting, instrument quickly transposes ground reference target to eye level, 6387
Sigman, Donald R., radiofrequency power transfer to ion-cyclotron waves in collision-free magnetoplasma, 7876
Signal Corps, Army, operations in World War II, the outcome, 10907
Signal systems:
  Federal item identification guides for supply cataloging, supplements, 2936
  railroad, installation, inspection, maintenance, and repair of systems, devices, and appliances, rules, standards, and instructions, 16385
Signals:
  accumulators, USSR study, 16501
  auditory and visual detection, effect of intensity changes in auxiliary stimuli, 5317
  circular light, detection in relation to shape and color identification, 8213
  conditioning to improve high resolution processing for PFM telemetry, 9503
  control system, simple circuit provides reliable multiple signal average, 12322

Signals—Continued
demand, system proportions fluid-flow in response to, 7767
discrete, theory and techniques of transmitting USSR all-Union scientific session devoted to radio day, 14830
millivolt, voltage ratio detector, 2454
recognition of voiceless fricative sounds from clipped speech signal, USSR study, 4601
signal and noise level estimation in coherent PCM channel, 7734
signal averaging filter, disclosures on, 7921
successiveness discrimination, further experiments, 9426
see also Radio signals—Time signals.
Significance of form, USSR, 7631
Signs:
fire prevention, modifying communicative effectiveness, 17691
no smoking ordinance in southern California, signing, 2065
Signs (advertising):
control under highway beautification act (remarks), 4019
Signs (road):
Great River Road, manual, 1448
standard alphabets for highway signs, reference guide, 16815
Signs (traffic):
Federal participation in costs of standard-type plans, BPR need for specific guidelines, GAO report, 7470
traffic sign charts, announcement and order forms, 17998
Sikaras, Panagiota K., relief, 16019
Silage, value of mature corn, 14107
Silane-diol polymers, *see* Polymers and polymerization.
Silazane polymers show promise for high-temperature application, 12293
Silence, breaching wall of silence, 6690
Silica:
bonded beads separate reflective insulator layers, 6396
fused, optical absorption coefficients in wavelength range 0.17 to 3.5 microns from room temperature to 980° C, 6440
vapor grown silicon dioxide improves transistor base-collector junctions, 6407
Silicates, electron probe analysis, standards, preparation, 11026
see also Zirconium silicate.
Silicon:
hypereutectic aluminum master alloy, commercial improvement, 9384
low energy protons and high energy electrons, effects, 6347
manufacture of lithium-drifted silicon surface-barrier semiconductor counters, 15166
silicon-nitrogen materials used to develop flexible protective coatings, 4864
solar cells—
aluminum doping improves, 10992
radiation damage from proton bombardment, 6547
Silicon carbide, disposal from stockpile, hearing, 570
Silicon dioxide, *see* Silica.
Silicone resins, *see* Resins.
Silicones, thermal degradation processes and stabilization by cerium inhibitor, 16759
Silk, yarn, temporary suspension of duty, extend, report, 482
Siloxanes, thermal degradation processes and stabilization by cerium inhibitor, 16759
Silvani, Sonia S., relief, 12876
Silver:
cells, use of auxiliary electrodes, 6348
mineral industry survey, monthly report, 3517
ores, census of mineral industries, 1963, industry statistics, 15575
Silver—Continued
production and consumption, 1964, report, 12262
solder, working with, 18084
United States movements, 3629, 5503
vapor pressure measurement with torsion effusion apparatus, 1156
Silver (money):
Mint Bureau, 1965 report, 12262
standard silver dollars held by Treasury, authorize sale to American Cancer Society and American Heart Association, hearings, 14414
Silver oxide, use as regenerative carbon dioxide sorber, 10962
Silverfish, how to control, 5292
Silverware, census of manufactures, industry report, 3905
Silvics of forest trees of United States, 29
Silviculture, *see* Forests and forestry.
Simmonds, Forrest A., Engelmann spruce, subalpine fir, and lodgepole pine mixtures for bleached groundwood, kraft, and sulfite viscose grade pulp, 2075
Simmons, Henry B., Matagorda Ship Channel model study, 7335
Simmons, James R., relief, 4074, 8704, 11533
Simmons, Sadie Y., relief, 4074, 8704, 11533
Simon A. C., investigation of intergranular corrosion of lead-antimony grid alloys, 16763
Simon, H. A.:
Eckert reference formulation applied to high-speed laminar boundary layers, etc., 7740
properties of hydrogen, nitrogen, hydrogen, carbon-dioxide, and carbon-dioxide nitrogen mixtures, 6337
Simoneau, Robert J., visual study of velocity and buoyance effects on boiling nitrogen, 15138
Simons, D. B., resistance to flow in alluvial channels, 17718
Simons, David G., anchor button, attachment technic for biomedical instrumentation lead wires, 99
Simons, J. W., grain drying and storage studies in southwest Georgia, 67
Simonson Dolomite, *see* Devonian period.
Simple, nondestructive test identifies metals, 13741
Simpson, Bryan G., relief, 8539, 12612, 13110
Simpson, J. E., foreign and domestic rices, 8169
Simulation:
fixed-base visual study of manually controlled translation and hover maneuvers over lunar surface, 17919
inflight and ground-based, handling qualities of very large airplanes in landing approach, 17884
information processing in a neuron, USSR, 2205
psychosensory disorders resulting from temporary weightlessness, USSR, 17760
simulation in biology and medicine, USSR, 16475
Simulators:
command post exercise, computers use to improve, 6536
computer program, adaptable to industrial processes, 16641
computer techniques for radar landmass simulation, 9593
deck motion simulator program, 16671
effects partial gravity conditions, 13774
field of view of human eyes simulated by optical projectors, 4847
isonospheric, survey, 10950
manrating space environment, aerospace medicine considerations, 15481
orbital docking, role of prediction in training, 13910

Simulators—Continued
parachute landing, 4437
static liquid configuration in propellant tanks, 9509
Radar simulators—Space simulators—*see also* Aircraft—Flight simulators—
Sinai Hospital, aging center, 1429
Sinclair, John, relief, 8538
Sindt, C. D., temperature-entropy diagram for parahydrogen triple-point region, 17943
Sines, *see* Trigonometry.
Singapore:
area handbook, 9896
establishing business, 10029
investment guaranties, agreement, 15352
labor laws and practice, 4713
Singer, Joseph M., equivalences of coal dust and methane at lower quenching limits of flames of their mixture, 9381
Singers, occupations, employment outlook, 9257
Single channel pulse-height analyzer operates in subnanosecond range, 15107
Single parameter testing application, 2362
Single units and multiunits, 1963 census of business, 194
Sinnamon, H. I., dehydrated explosion-puffed carrot dice of high density, 12
Sinnhuber, R. O., effect of irradiation on microbial flora surviving irradiation pasteurization of seafoods, 5411
Sintering, snow, temperature dependence and mechanism, 15507
Sinusitis, maxillary sinus disease in aviators, 9862
Sinusoidal pressure generators, *see* Pressure generators.
Sinyavskiy, A.:
condemnation of Soviet author, USSR study, 6103
Soviet author, trial, remarks by Western critics, 9084
Sioux Falls, S. Dak., area wage survey, metropolitan area, 4726
Sioux Falls Chamber of Commerce, annual meeting, as long as there is margin between what a city is and hopes to be, there is work for Chamber of Commerce (remarks), 288
SIPEX, *see* Sixth International Philatelic Exhibition.
SIR series, 14287
Sir Winston Churchill Day, designate, law, 8461
Sires, *see* Bulls.
Sisal hemp:
cordage fiber, disposal from national stockpile—
hearings, 11643
law, 11571
reports, 10150, 11755
Sisco, Joseph J., address, Apr. 2, 1966, 11259
Siskiyou National Forest, 1965 progress, annual report of activities, 8978
Site indexes:
curves for Engelmann spruce in northern and central Rocky Mountains, 10567
height growth characteristics of Siberian elm in central Great Plains windbreaks, 8966
Virginia, loblolly, and shortleaf pine in Virginia piedmont, predicting, 8977
white pine, and comparative tree height of associated species, 8972
yellow-poplar related to soil and topography, 17701
Sites:
community center planning, Army technical manual, 1648
grouping, by soil management areas, etc., Forest Service research note, 13362
installations planning, general, Army technical manual, 15516
research, scientific work, statistics, Hungary, 7580
Sitka Magnetic Observatory, magnetograms and hourly values, 5527
Sitka spruce, *see* Spruce.
Sixth International Philatelic Exhibition:
address at opening, 11171
5-cent commemorative postage stamp (poster), 9613
5-cent SIPEX souvenir sheet (poster), 9614
Skates (fishes):
general information, 4404
Ski Week, National, *see* National Ski Week.
Skids (aircraft):
materials, drag and wear characteristics on lakebed surfaces, 6469
Skiing, *see* Skis and skiing.
Skilled labor, *see* Labor.
Skilled trades, *see* Occupations.
Skilled workers, *see* Labor.
Skilling, Darroll D., Scleroderris canker in upper Michigan, etc., 13370
Skin friction (aircraft):
skin friction on sharp and blunt flat plates at Mach 6.8, 7847
supersonic, evaluation and reduction, 16668
turbulent at Mach 3, effect of air injection through slots and porous surfaces on flat-plate, 7846
turbulent, at supersonic Mach numbers, adiabatic wall, study of surface pitots, 12355
Skis and skiing, national forests, America's playgrounds, 3762
Skokomish Indians:
judgment funds, disposition—
law, 17145
report, 17502
Skold, Melvin D., regional location of production of major field crops, 1975, linear programing analysis, 8172
Skolmen, Roger G.:
durability test of wood posts in Hawaii, 10579
water spray protects stored logs in Hilo, Hawaii, 10574
Skolnik, Alfred M., experience of employee-benefit plans, 6611
Skopic, Charles E., local convention representation and constitutional amendments in national unions, 1079
Skurnick, I. D., current distribution in array of superconducting thin films, 6456
Sky, radiance measurements in Greenland, 11395
Skyline Churches Cemetery, land conveyance to, 17183
Skyline logging handbook on wire rope tensions and deflections, 4481
SL series, 768–778, 2046
Slag:
recovery of manganese, 6319
tin, electric-arc furnace reduction for production of columbium-tantalum-bearing alloy, 7707
see also Cement.
Slash, *see* Forests and forestry.
Slash pine, *see* Pine.
Slaughtering:
commercial slaughter, meat and lard production, etc., 9738
economies of scale in cattle slaughtering plants, 17948
hog slaughtering and dressing systems, 15448
hogs, labor cost, 16723
livestock—
industry, decentralization, 10408
industry, 1950–62, federally inspected structural changes, 5863
monthly report, 3160
Slavin, Joseph W.:
annual report of Bureau of Commercial Fisheries Technological Laboratory, Gloucester, Mass., fiscal year 1963, 2037, 11965
irradiated-pasteurized fishery products, 15539

Sleep:
and electric sleep in children, USSR study, 14850
current research, 1307
electric sleep therapy of hypertension, USSR study, 12164
investigating phenomenon, USSR, 1015
normal, dreams during, USSR study, 14849
see also Hypnopedia.
Sleeper, Robert K., loads experienced by piloted launch vehicle, 7836
Sleeping Bear Dunes National Lakeshore, establish, hearings, 4134, 13041
Sleeving (insulating):
insert sleeve prevents soldering contamination, 11030
plastic sleeves, conductors sealed with special tool, 9499
shrinkable sleeve eliminates shielding gap in RF cable, 4880
tool separates sleeve-type unions without heat, 11043
Slemon, David R., relief, 11707
Slide projectors:
optical projectors simulate human eyes to establish operator's field of view, 4847
single projector accommodates slides of different size and format, 4853
Slidefilms, *see* Filmslides.
Slimes, *see* Phosphate slimes.
Sliney, Harold E., self-lubricating composites of porous nickel and nickel-chromium alloy impregnated with barium fluoride-calcium fluoride eutectic, 12357
Slip laws, *see* Law.
Slippers, *see* Boots and shoes.
Slipstream, *see* Propellers.
Slopes, channel and hillslope processes, semiarid area, New Mexico, 12019
Sloshing:
fuel, damping law, 6429
lateral, nonlinear, in rigid containers, studies, 4830
slosh design handbook 1, 9395
Slovakia, *see* Czechoslovakia.
Sluder, Earl R., hand-pollinate yellow-poplar without climbing, 10587
Slum clearance, *see* Slums.
Slums:
clearance—
local public agency letters, 3164
urban renewal manual, 3653
demonstration cities and metropolitan development act of 1966, reports, 13186, 15897, 17241, 17336
rebuilding, city demonstration programs—
hearing, 8659
recommendations, message from the President, 5605
reports, 14388, 17202
summary of House bill, 8664, 13023
Slurries:
coal-water, flow properties, 2352
vapor condensation process produces slurry of magnesium particles in liquid hydrocarbons, 7771
SM series, 8386, 11493, 12745, 15625, 17030–31
Small, William J., effect of geometric modifications on maximum lift-drag ratios of slender wing-body configurations at hypersonic speeds, 7829
Small-area data activities, 5500
Small arms ranges, 16944
Small business, *see* Business.
Small Business Administration:
administrator, nomination of Bernard L. Boutin, hearing, 10330
appropriations, 1967—
hearings, 15955, 17567
reports, 15938, 17539
budget, 1967, amendments, 15787
business loan approvals, 1965, supplement, 14012
Small Business Administration—Continued
economic injury disaster loans, etc., for displaced small businesses, 11218
financial assistance programs, summary, 16823
lending programs, hearing, 5826
loan pools, sale of participations—
hearings, 8662–63, 8681, 10267
reports, 5785, 8615
loans and commitments outstanding, increase, authorization—
hearing, 8663
law, 10060
reports, 5786, 7102, 8570
organization, changes—
hearings, 14477, 15963
report, 15937
press releases, 3406
publications—
for-sale booklets, 2554
free publications currently available, 2555, 11219
management aids for small manufacturers, annual compilation, 1456
management, classification, 9642
sale list, 14013
report, 15325
revolving funds—
increase, law, 435
separate, establish, hearings, 4211
Service Corps of Retired Executives, managerial skills and experiences available to small businesses, 6600
starting and managing series, 9645
Small Business, Select Committee on, House:
hearings, 531, 1869, 4146–47, 7165, 14442, 15990–993, 17395
investigations and studies, expenses, report, 5644
Small Business, Select Committee on, Senate:
annual report, 13139
committee prints, 7238, 10372
hearings, 5826, 7237, 11833–834, 14505–506, 17599
investigations and studies, small and independent business, problems, authorization, report, 4203
report, 564
Small craft, gale and whole gale warning facilities charts, 15423–424
Smallpox:
immunization of guinea pigs against, USSR studies, 10834
morbidity throughout world in 1960–64, data, 6223
Smariga, Julian, fire prevention in hospitals, 11188
SMC, *see* Supply and Maintenance Command.
Smelting:
and refining of nonferrous metals and alloys, census of manufactures, industry report, 5446
electrolytes for electrorefining hafnium, 15022
molybdenum, high-purity, preparation by molten salt electrorefining, 17859
SMI (supplementary medical insurance), *see* Medical care.
Smirnov, S. S., USSR academician, achievements in connection with Pacific ore belt, 13549
Smith, A. Howard, remarks, Sept. 26, 1966, 15635
Smith, A. M., nongrey radiation effects on boundary layer of absorbing gas over flat plate, 16597
Smith, Albert B., solar cell damage by alpha particles and protons, 9540
Smith, Alphonsa, nude fast-response cold-cathode ionization gage, 4981
Smith, Arthur L., industrial waste guide to synthetic textile industry, 2533
Smith, Bryce A., relief, 17430
Smith, Charles R., and wife, relief, 385

Smith, Clarence T., Army research and development, newsmagazine, 2691
Smith, Edward K., remarks, Nov. 15, 1965, 338
Smith, Edward N., 20 years later, postwar employment trends in West, 9338
Smith, G. Louis, vortex flow and erosion in rocket nozzles, 4971
Smith, Gerald M.:
Ranger VIII, photographs of moon, 12280
Ranger IX photographs of moon, 12281
Smith, Harold M.:
crude oil—
characterizations based on Bureau of Mines routine analyses, 17855
qualitative and quantitative aspects, 6291
Smith, Helen V., transportation of grain in southwestern States by rail and truck, 3771
Smith, Hyrum M., guidance services in elementary schools, 13272
Smith, James L., elastic constants, etc., of Greenland snow, 9891
Smith, Jerry L., study of effects of wet surface soil conditions on performance of single pneumatic-tired wheel, 4341
Smith, L. Dale, impregnated lubricants in ball-bearing retrainers at 10^{-9} torr, 4976
Smith, L. Jack, use of phase-locked-looped control for driving ultrasonic transducers, 15174
Smith, L. L., seasonal variations of nightglow in tropics, 5019
Smith, Leslie G.:
investigation of D and E regions of ionosphere during International Quiet Sun Year, 6339
molecular oxygen densities from rocket measurements of Lyman-a absorption profiles, 6340
Smith, Marion A., market diseases of asparagus, etc., 16920
Smith, Peter M., culvert pressures, Greenup Lock, Ohio River, Ky., 16249
Smith, R. S., jr., frost injury to bitterbrush in eastern California, 4449
Smith, Richard C., manpower use in woodproducts industries of Oregon and Washington, 10603
Smith, Richard J.:
bibliographies of interest to atomic energy program, 6860
pulsed reactors and pulsed critical assemblies, 1684
reactor safety, 5402
Smith, Robert J., enhancement of superconducting current-carrying capacity in niobium through hydrogen treatment, 16693
Smith, Roy J., jr., weeds and their control in rice production, 5283
Smith, Sterling R., data converter and display system for Wisconsin experiment on Orbiting Astronomical Observatory, 17929
Smith, Tynam, research on banking structure and performance, 8926
Smith, W., temperature, etc., measurements in upper stratosphere and mesosphere, 13848
Smith, W. S., atmospheric emissions from coal combustion, inventory guide, 13961
Smith, Wesley G., inventory of land and its use, TVA, 15390
Smith College, digital polarimeter, duty-free entry, 389, 542
Smithsonian Astrophysical Observatory:
administration and activities, 9647
lighthouse of the skies, background and history, 8019
star catalog, 9646
Smithsonian contributions to anthropology, 6499
Smithsonian contributions to astrophysics, 2560
Smithsonian Institution:
annual report, 1965—
departmental edition, 8021
document edition, 7055
appropriations, 1967—
hearings, 7113, 8763
law, 10086
reports, 8592, 10160, 10281
Arts and Industries Building, guide map, 16824
board of regents annual report, 1964—
departmental edition, 5138
document edition, 4045
board of regents, programs in marine science, hearing, 14431
citizen regent, appointment of Robert V. Fleming, report, 1919
gems collection, 5139
general information, 16828
History and Technology Museum, guide map, 16825
Joseph H. Hirshhorn Museum and Sculpture Garden, establish—
hearings, 13229, 14439
recommendation of legislation, 11606
National Museum act of 1965, report, 10216
National Zoological Park administration, reorganization, message from the President, 11615
Natural History Museum, guide map, 16826
publications, price list, 16787
rates of compensation for certain executive positions, establish—
hearing, 15986
reports, 17229, 17541
transfer title to Von der Heydt art collection to—
law, 12828
reports, 5777, 12927
Smithsonian miscellaneous collection, 1461, 8020, 9647–51, 11223–225, 12506, 14014–17, 18095–97
Smog, time has come when the Nation must come to grips with smog (remarks), 13996
Smoke:
doors as barriers, 7909
irradiated cigarettes, content, 5395
light-transmitting and scattering properties, 17683
wind velocity profiles measured by smoke-trail method, Eastern Test Range, 6453
Smoking:
mortality from diseases associated with, U.S., 16811
no smoking ordinance in southern California—
motorist's knowledge, 2066
signs, 2065
smoking and health, educational materials, 12469
young smokers, you can quit smoking, young smokers aren't really hooked, 3945
Snails, land snails of genus Amphidromus from Thailand (Mollusca: Pulmonata: Camaenidae), 1326
Snake River and Valley, fish passage report, 11888
SNAP (systems for nuclear auxiliary power), *see* Atomic energy—Atomic auxiliary power generators.
Snipes, hunting, possession, transportation, importation in Alaska, 1966–67, Federal regulations governing, 14673
Snively, James W., jr., statistical data compression technique, 16680
Snow, Clyde C., anthropometry of air traffic control trainees, 6874
Snow:
annual and monthly snow fall, maps, 5894
Antarctica, studies, 8238
approach to consolidation of snow, 8241
bibliography, with abstracts, 16957

Snow—Continued
compaction, effect on runoff from rain or snow, 12494
conditions, weather and crop bulletin (periodical), 3703
drifting, simulation, 6832
engineering, 1639
explosions and snow, 1639
failure, theory, 1635
Federal-State-private cooperative surveys—
Alaska, 2962
Arizona, 3687
Colorado and New Mexico, 3688
Colorado and New Mexico snow courses and soil moisture stations, list and location, 8029
Colorado and Wyoming, special report, 9713
Colorado early season report, 2572
Idaho, 3689
Montana, 3690
Nevada, 3691
Oregon, 3692
Utah, 3693
Washington State, 3694
Western United States, including Columbia River drainage in Canada, 3695
Wyoming, 3696
Goose Lake, Mont., 1964, accessibility field methods and logistics, 1638
Greenland, elastic constants, strength and density as determined from sonic wave velocity measurements, 9891
high snowfields of St. Elias Mountains, Yukon Territory, Canada, 9892
loads on roofs in areas of heavy snowfall, 16323
optical measurements, 116
polar, physical and mechanical properties, 8234
sintering, temperature dependence and mechanism, 15507
snowpack, effect on frost penetration and trafficability in two peat-soil sites, 5981
spread footing foundations, 14212
strength—
considerations, 8242
studies, 8237
subsurface transportation methods in deep snow, 8246
surveys—
watersheds, 3746
western U.S. including Alaska, accuracy, technical report, 3820
sustained winter streamflow from groundmelt, 8957
temperature, Greenland ice sheet, 6830
visual resolution and optical scintillation, 8233
see also Precipitation.
Snowden, Susanne, current projects on economic and social implications of science and technology, 16741
Snowstorms, light scattering and particle aggregation, 9889
Snyder, E. B., cone and seed yields from controlled breeding of southern pines, 10610
Snyder, Irene, relief, 11730, 15669
Soap, metal soap-oil systems, behavior, 12437
Soapstone, minerals yearbook chapter, 17868
Sobin, Irving M., Chemical Co., Inc., relief, 381
Social insurance administration adviser and research analyst, examination announcement, amendment, 6962
Social insurance research analyst, *see* Research analysts.
Social life and customs, *see* Manners and customs.
Social policy for 1970's, 7498
Social power and social change in contemporary America, address, 16854
Social processes, regulating, scientific methods, pursuit USSR study, 17757
Social sciences:
control of social processes and cybernetics, USSR study, 1053
economic and social implications of advances in science, etc., current projects, 16741
Latin Americanists, specialists, biobibliographies, national directory, 10892
research—
current list, 2576
raising level, USSR study, 16464
studies, current list, Asia, 12522
social science and your career, 13647
Soviet secondary schools, syllabus of new course, 14564
Social scientists, employment outlook, 13594
Social security:
account numbers, 1965, issuance, 12513
act, amend—
hearings, 13209
law, 8460
reports, 8728, 11633, 13182, 15842, 17282, 17335
amendments of 1965—
brief explanation, 2569
data relating to S. 1991, 4217
employment security provisions, 533
farm and rural people, benefits, important facts, 1971
health insurance provisions, annotated text, 5792
law, print additional copies, report, 13005
medical assistance program, questions and answers, 17641
message from the President, 8500
report, 8605
Senate amendments, brief description, 1937
significance for child health programs (address), 277
summary, 573, 7209
beneficiaries—
who live outside United States, message, 2562, 16833
who reach 100, 18099
benefits—
clergymen, brief explanation, 1474
disability, rights and responsibilities of recipients, 1473
how to estimate amount, how you earn them, etc., 1468
instructions for representative payee, 1465
mentally retarded child, 15329
people 72 or over, brief explanations, 1475, 14021
qualifications as widow, widower or stepchild, reduce period, report, 17331
serviceman and veterans, 6606
special, under 1966 amendments, rights and responsibilities of recipients, 14019
students up to age 22, explanation, 2570
widows at age 60, brief explanation, 1463
you don't have to retire completely to get them, 15327
benefits at age 72—
legislative history, 17399
law, 7032
explanation, 11799
summary, 7170
report, 7086
Senate amendments, summary, 8687
bulletin, 3518
statistical supplement, 14020
cash benefits, how to estimate amount, how you earn them, etc., 5143
coverage for household employees, 12510
coverage for household workers, 15328
deductions, explanation, 1466
earnings, record, 15330
employer's tax guide, 854

Social security—Continued
farm statistics, 15332
farmers, self-employed—
getting social security credit, 1467
reporting income, special information, 9655
foreign developments, 1471
health insurance—
medicare handbook—
hospital insurance, 11229
medical insurance, 16832
physicians reference guide, 11228
your medicare handbook, 12512
if you work while you get social security payments in 1966 and later years, 11227
information for crew leaders and farmers, 6604
law, changes, 12511
laws, compilation, 1798
new benefits awarded in Sept. and Oct. 1965, under 1965 amendments, 2567
programs in United States, 18102
publications, price list, 7986
research and statistics notes, 1469–72, 2565–67, 5145, 6609–11, 8027, 9657–58, 11230, 12513, 15331, 18101
retirement or survivor benefits, rights and responsibilities of recipients, 2568
rulings on Federal old-age—
survivors, and disability insurance, 3519
survivors, disability, and health insurance, 6613
self employed people, reporting their income, special information, 9654
self employment taxes, guide for farmers, 2117
State public assistance plans, staff development provisions, 5905
tax guide for—
agricultural employers, 2115
employers in Virgin Islands, Guam, and American Samoa, 2116
household employers, 855
your check, 2563
your social security, 12511
see also Disability insurance—Old age, survivors, and disability insurance—Public assistance.
Social Security Administration:
actuarial notes, 1462, 5140–41, 6603, 8022, 11226, 16829, 18098
district offices, regional offices and payment centers, map, 11231
health programs, law, compilation, 13049
objectives, 14018
Social service, *see* Social work and problems.
Social surveys:
Atlantida, case study in household sample surveys—
content and design of household surveys, 3938
field operations, organization, training, and control, 17012
population data controls, 6937
sample design, 15596
survey objectives and description of country, 3937
complex, approach to analysis of data, development and evaluation of replication technique for estimating variance, 11198
Social welfare, *see* Social work and problems.
Social work and problems:
abstracts of research and demonstration projects, 8868
alcoholism, social aspects, 15428
careers in social work, examination announcement, amendment, 12751
Chile, education and social change, 11871
closing gap between available and needed social work manpower, Departmental Task Force report, 6046
constructive public welfare program, 1539
contribution of social welfare to economic growth (address), 11318
Social work and problems—Continued
duty of educated individual (address), 15640
emergency welfare services manual, 17024
helping people in groups, 6 background papers from Workshop on Group Services, Apr. 19–23, 1965—
French edition, 14583
Spanish edition, 14584
mental health trainee stipends, 11107
mental patients, social readjustment, studies, 16404
National Institute of Mental Health student research, stipend program in social work, survey, 15290
national trends, 13421
policy for 1970's, 7498
professional and amateur volunteer workers, roles in social reform (remarks), 9193
public welfare, work experience program, training, etc., 13303
research programs, opportunities for schools of business administration (remarks), 338
research relating to children, studies in progress, 12734
social development, key to Great Society, 11320
social services—
economic opportunity act, press reports, 13303
offered by head start child development centers, 4276
provisions, State plans, characteristics under social security act, 8869
public assistance, program development, 1997
social welfare in changing world, place in process of development—
French edition, 15426
Spanish edition, 15425
social welfare programs, portrait of median city, capsule view in U.S., 16905
State data and rankings, 16365
urban development, social aspects, seminar, 2024
Vietnam, social revolution, Americans as quiet warriors supporting, 10691, 11253
voluntary welfare agencies, fund-raising within Federal service, manual, 3178
changes 1756, 6968, 11499
welfare, etc.—
indicators, 3037
international development programs, contribution of Welfare Administration—
French edition, 16903
Spanish edition, 16902
welfare, reference facts, 6047
welfare services in South, desegregation, survey, 5516
white-nonwhite differentials in health, education, and welfare, 837
Social workers:
available and needed, number for closing gap in social work manpower, Departmental Task Force report, 6046
employment outlook, 9276
examination announcement, amendment, 12751
public health personnel, kidney disease guide, 5110
services under AFDC for children who need protection, caseworkers' manual for public assistance agencies, 1999
utilization for family services in public welfare—
auxiliary staff, 11906
staff with differing levels of education, 11907
Socialism:
and cultural heritage, USSR study, 17787
Baath party's national Socialism, past and present, 6131

Socialism—Continued
dialectics of modern social development, USSR study, 2147
economic development of Socialist countries, USSR study, 14811
economy, laws for control, USSR study, 1019
fight for Socialist Netherlands, 6202
financing and crediting of social enterprises, Bulgarian study, 13581
present-day Catholic doctrine vis-a-vis working class, USSR, 16509
profitability of socialist enterprises, USSR study, 4676
scientific conferences and events in Socialist countries, 14860
Socialist unity party, problems of Italian left and unification, 13485
Societies:
role of student science societies in USSR, 16394
voluntary democratic associations, community organization for citizen participation, bibliography, 1396
Society:
center of our society, American city (remarks), 15261
cybernetics and society, 14908
middle-aged and older people in American society (address), 1572
science and society, international cybernetics conference, Herceg-Novi, Yugoslavia, 13508
science, technology and future of society (address), 15658
Society of American Foresters, Genetics Workshop and Lake States Forest Tree Improvement Conference, joint proceedings, 14716
Socio-economic aspects of water resources, 13427
Sociologists:
employment outlook, 13594
looking for sociologists, fill your needs through Professional Placement Network, 11887
Sociology:
Communist China, translations, 3590
development digest (periodical), 2854
Eastern Europe, translations, 3520
international meetings, world list, 3717
North Korea, translations, 3591
North Vietnam, translations, 3592
sociological changes in Turkey, 7568
sociological research, USSR study, 16397
sociological studies of occupations, bibliography, 1082
Sockets and keyed plugs prevent improper connections, 4875
Sockeye salmon, *see* Salmon.
Sockol, Peter M., flow of electrons through rarefied gas between plane parallel electrodes, 13825
Socotra Island, birds, 18096
Sod, establishing turf emergency construction, Army technical manual, 3834
Soda, Rajka, relief, 17176
Sodium:
and cesium tetraborate charge material, bias determination of mass spectrometric isotopic analysis of boron using prepared standards, 11427
and sodium compounds, minerals yearbook chapter, 13701
and water as sealed fluid, gas ingestion and sealing capacity of helicol groove fluid film, seal, 7866
components, development program, information meeting, proceedings, 5386
high-temperature properties, 1357
molten sodium environment, use of fluoride contings as lubricants, 4842
reduction of titanium lower chlorides dissolved in sodium chloride, 16572
solute and water transport across biologic membranes, 14774
Sodium—Continued
transport in isolated ileum from cobalt-60 irradiated rabbits, 3792
vapor, nozzle critical flow characteristics, 4931
Sodium carboxymethylcellulose, dilute aqueous solutions, turbulent shear flow, 6343
Sodium chloride, *see* Salt.
Soft rot, bacterial, in bell peppers, cause and commercial control, 6757
Sohlstrom, Dennis R., technological change in hospital, 4332, 7328
Sohns, V. E., microbial polymers, preliminary cost estimate, 9787
Soil conservation:
abstracts of material published, 9775, 14101
agricultural practices, effects on hydrology of Corey Creek basin, Pa., 17725
county committees, extend benefits to employees—
hearing, 7233
report, 16069
cropland, 1963 conversion program, Dec. 31, 1965 status, 11344
districts, assessments, tax treatment, report, 17562
districts, status of organization, by States, approximate acreage, etc., 15333
Great Plains conservation program, progress report, 1597
highlights, 8028
needs broaden after 30 years, 15468
new dimensions (remarks), 1607
Northwest resource conservation and development project areas, establishing alfalfa dehydrating plants, feasibility, 14542
resource conservation and development projects RC and D, 1476
scientific careers in Agricultural Research Service, 1591
soil conservation (periodical), 3521
soil conservation and domestic allotment act, amend with respect to assignment of payments, report, 17281
America the beautiful (colored poster series), 9660–9711
appropriations, 1967, Agriculture Dept., hearings, 8648, 11787
report, 1965, digest, 8028
vehicles, reducing number maintained in fleet, GAO report, 10620
Soil conservationists, trainee, examination announcement, 1752
Soil erosion:
areas other than airfields, Army technical manual, 8262
channel and hillslope processes, semiarid area, New Mexico, 12019
control—
airfields and heliports, Army technical manual, 1654
soil movement from steep road fills, 14699
erosion and sedimentation in semiarid environment (series), 817, 12019, 17717
forest floor in loblolly pine plantations, as related to stand characteristics, 4459
loess-mantled Great Plains, Medicine Creek drainage basin, Nebr., 17717
Soil mechanics:
cement and dispersant additives, effect on hydraulic backfill, laboratory study, 16576
foundations, and earth structures, Navy design manual, changes, 6707
properties in vehicle mobility research, evaluation of rectangular hyperbola for describing load-deformation, 4339
Soil moisture, *see* Soils.
Soil scientists, trainee, examination announcement, 1752
Soil stabilizing agents, *see* Soils.

239-221—67—No. 863——36

Soils:
China, translations, from T'u-jang Chuan-pao, 16467
cleanup and confirmation of identity of pesticide residues by thin-layer chromatography, 14113
cohesive, rapid method of construction control for embankments, 8009
Crow Creek Indian Reservation, inventory, 9031
environmental radiation surveillance, sample preparation, 15277
establishing turf emergency construction, Army technical manual, 3834
extraterrestrial, instrument for detection of life by optical rotatory dispersion, 9399
foundation design of buildings and other structures (except hydraulic structures), procedures, Army technical manual, 130
freeze and thaw—
depths, emergency construction, calculation methods for determining, technical manual, 16964
determining depth for arctic and subarctic construction, Army technical manual, 5374
frost-heaving—
pressures, 3816
principles, 3815
frozen, strength and creep, and calculations for retaining structures, 11891
grouping sites by soil management areas and topography, 13362
humus-mineral mixtures, growth response of yellow birch seedlings, 14705
large scale maps compiled from aerial photographs, USSR study, 1063
liming, aid to better farming, 15442
microbiology, current problems, 7900
moisture, grass and shrub-land soils, investigations, 1942–64, bibliography, 4482
moisture readings, accuracy with unsealed access tubes, 13363
oblique impact of solid body on soil, USSR study, 16429
Okpilak River region, Alaska, development under Arctic environment, 15506
penetrometer, with extendable mast, 7800
performance under tire loads—
analysis of tests in sand, 10445
tests in clay through Nov. 1962, 8865
pesticides, equipment for applying, 5284
plane plastic deformation, 14210
podzol, yellow birch growth in, 800
porosity and random roughness of interrow zone influenced by tillage, 9791
publications, price list, surveys, erosion, conservation, 1405
Rumania, utilization, research, 14886
sampling small wetland forest plots in Coastal Plain, 14711
saturated, survival and 1st-year growth of hardwoods, 16335
site index of yellow poplar, 17701
soft cohesive, effects of air surcharge on bearing capacity, 8863
soil survey investigations reports, 16836–842, 18104
soil survey laboratory data and descriptions—
Arkansas, Louisiana, Missouri, 16839
Iowa, 16837
Kansas, 16838
Minnesota, 16842
Montana, 16840
Nebraska, 18104
North Dakota, 16836
Wyoming, 16841
soil survey reports—
Alameda area, Calif., 8030
Bamberg County, S.C., 8033
Berkeley County, W. Va., 15334
Bexar County, Tex., 14023
Soils—Continued
soil survey reports—continued
Camden County, N.J., 11233
Clarke County, Miss., 6616
Clinton County, Pa., 16835
Crosby County, Tex., 6617
Dyer County, Tenn., 11234
Fayette County, Ala., 8031
Finney County, Kans., 2571
Fountain County, Ind., 18105
Gaines County, Tex., 9712
Gem County area, Idaho, 1477
Gordon County, Ga., 1478
Grand Traverse County, Mich., 6615
Marlboro County, S.C., 6618
Morgan County, Ga., 5149
Prineville, Oreg., 6614
Reno County, Kans., 14022
Scott County, Kans., 5148
Somerset County, Md., 15335
Wichita County, Kans., 8032
soil surveys—
community planning and resource development—
hearing, 17354
law, 17099
report, 17207
list, 11232
stabilization, emergency construction standards, 12664
subgrade stabilization with portland cement and hydrated lime under modified T11 landing mat, 7333
subsoil, phosphorus in, promotes root development of yellow birch, 8958
technical journal of soils, translations, 16398
tests computer programs, 16817
thermal conductivity, measurement methods, 3817
thermal stabilization, 4344
three-dimensional yield criterion of C–Φ material, 8240
western United States and Canada, aggregate stability, measurement procedure, correlations with soil constituents, 11369
wet surface, performance of single pneumatic-tired wheel, 4341
see also Loess.
Sokitch, Miloye M., relief, 17412
Solar:
NOTE.—For other subjects beginning Solar, *see* Sun.
Solar batteries:
assembly jig assures reliable solar cell modules, 4873
cadmium sulfide—
solar cells, effect of moisture on, 17924
thin-film, thermal cycling, 16657
damage by alpha particles and protons, comparison, 9540
silicon—
aluminum doping improves, 10992
epitaxial structures for radiation resistant, development, 10941
radiation damage from proton bombardment, 6547
submodule design facilitates assembly of lightweight arrays, 11024
tool permits damage-free removal, 11013
Solar cells, *see* Solar batteries.
Solar concentrator, thermal distortions of thin-walled paraboloidal shells, 15161
Solar energy:
device for use in testing refractory materials, USSR study, 16434
distillation process utilizing multiple-effect humidification, 14770
double-reflector system for collecting, analysis of performance, 13837
drying of tropical hardwoods, 16338
solar sea-water stills, study and field evaluation, progress, 4550, 10675
torque requirements for orientation of solar Brayton system in earth orbit, 2427

Solar flares:
effects in ionosphere, observed Sept. 1960–Dec. 1962, atlas, 5018
prediction, adaption of evolutionary programming, 9396
Solar physics, *see* Physics.
Solar radiation:
absorptance of coatings between 300° and 575°, 7889
particles and fields, 1958–64, significant achievements, 7755
potential solar beam irradiation on slopes, tables, 10607
Solar reflectors, double-reflector system, analysis of performance, 13837
Solar sensors, *see* Sensors.
Solar simulation, vortex stabilized radiation sources for improved solar simulation, basic studies, 9436
Solar system, analog model relates celestial bodies spatially, 16636
see also Planetology.
Solder and soldering:
aluminum core structures brazed without use of flux, 13795
boron-deoxidized copper withstands brazing temperatures, 15092
braze—
alloys used as temperature indicators, 12315
contamination minimized by union in joining of tubing, 13747
brazed tube connectors, improved tool easily removes, 4840
brazing—
alloy eliminates metal-stress cracking, 2401
marine engineering regulations, 14316
method produces solid-solution bond between refractory metals, 2389
process provides high-strength bond between aluminum and stainless steel, 13787
processing using Al-Si filler alloy reliably bonds aluminum parts, 11033
controlled brazing, high-speed furnace uses infrared radiation, 12310
electrochemical milling removes burrs and solder from tubing ends, 13793
electron beam brazing, split glass tube assures quality, 7804
electronic components on circuit board, fixture for holding, 9471
electroplating eliminates gas leakage in brazed areas, 16637
inert-gas brazing enclosure fabricated from sheet plastic, 1214
insert sleeve prevents soldering contamination, 11030
silver solder, working with, 18084
Soviet debate on brazing, 943
tool heats workpieces and applies solder in one operation, 10987
tungsten wire and tubing joined by nickel brazing, 4884
vacuum furnace brazing, development and evaluation of braze alloys, 12272
Solderers, personnel, training, qualification, and certification guide, technical inspection manual, 5077
Soldering inspectors, personnel, training, qualification, and certification guide, technical inspection manual, 5077
Soldering irons:
heats workpieces and applies solder in one operation, 10987
modified, speeds cutting of synthetic materials, 11038
temperature, automatically reduced, 9494
Soldiers:
American, 1863–1963, posters showing uniforms, 3812
civil relief act, text, 1872
individual clothing and equipment, care and use, field manual, 3821
Soldiers' deposits, *see* Deposits (soldiers, etc.).
Soldiers' Home, District of Columbia:
appropriations, 1967—
hearings, 8650, 14472
reports, 8626, 16151
Soldotna, Alaska, Federal grants for airport improvements, Federal Aviation Agency, GAO review, 17711
Solem, Alan, land snails of genus Amphidromus from Thailand, 1326
Solenoids, multiple system, pneumatic binary encoder replaces, 15104
Solid state detectors monitor relay contacts, 15126
Solid-state switch increases switching speed, 16644
Solid surfaces, *see* Surfaces.
Solid Wastes Office, information series-SW, 7999
Solidification, high speed, dynamic effects arising from, 1363
Solids, origin and growth in solids as affected by charge design, USSR study, 6163
Soliwoda, Sophia, relief, 14353
Solomon, Anthony M., address, Oct. 21, 1965, 5151
Solomon Islands, British, mineral industry, minerals yearbook chapter, 6297
Solutes, solute and water transport across biologic membranes, 14774
Solution of ordinary differential equations by means of Lie series, 16592
Solutions, systems for displacing organic liquids from solid surfaces, 16768
Solvents:
processing of coal to produce de-ashed product, 312
residue content measured by light scattering technique, 13755
Sólyom-Fedete, William, church and state under Commmunism, Hungary, Czechoslovakia, German Democratic Republic, 7219
Somali Republic, mineral industry, minerals yearbook chapter, 9362
Soman:
lethal poisoning of dogs, prophylaxis with nemikon-4, electrocardiographic observations, Bulgarian study, 13504
problems regarding acute toxicity, USSR studies, 9116
Somerset County, Md., soil survey report, 15335
Somerset County, N.J., commodity transportation survey, production area series, 8342
Something for the special child, 7320
Sonar:
advanced submarine sonar technology, Navy trainee's guide, 1340, 2486
technology, introduction, 11217
Sondermayer, Roman V.:
mineral industry of—
Albania, 15014
East Germany, 2324
Greece, 6299
Hungary, 2326
Rumania, 4777
USSR, 4780
Yugoslavia, 4782
Songbirds, tropical American nine-primaried, display patterns, 9649
Sonic boom:
anticipation, sound propagation study, 2441
characteristics of—
delta-wing-body combination, 11075
supersonic and hypersonic airplanes, proposal, 16667
ground pressure patterns, effects of atmospheric refraction and airplane accelerations, 15152
near-field pressure signatures, calculating, 1258

Sonic boom—Continued
pressure distributions, effect of body shape, 1270
Rayleigh waves generated, ground shock effects, 9424
shock wave, behavior near sonic cutoff altitude, 4815
simulation by ballistic models, 17876
Sonic equipment, *see* Sound.
Sonic listening, *see* Sonar.
Sonic waves, *see* Sound.
Sook, Hi Lee, *see* Lee Hi Sook.
Sook Jun Ki, *see* Ki Sook Jun.
Soon Kim Kin, *see* Kim Kin Soon.
Sorcier Indien de la tribu Shoshone, Thermopilis, Etat de Wyoming, 15410
Sorenson, Richard C.:
logical model representing personnel flow in U.S. Army, considerations relative to reduction of turbulance, 3839
optimal allocation of enlisted men, full regression equations vs. aptitude area scores, 8275
Sorensen, Roy T., pilot plant flotation of nonmagnetic taconite, etc., 6313
Sorghum, parasitic plant attacks sorghum, 58
Sorption, *see* Desorption—Electrosorption.
Soto, Emilio V., relief, 15821
Sotolongo, Julio C. Muniz y, *see* Muniz y Sotolongo, Julio C.
Souk You I, *see* You I Souk.
Sound:
absorption of high-frenquency ultrasonic vibrations in binary alcohol-water mixtures, USSR study, 13518
acoustics—
cosmonaut experience, USSR studies, 9137
decay coefficients of simulated rocket combustors, 9538
displays of flight parameters, 13710
KIWI B nuclear rocket study, 4825
radiated field of rectangular pistons, application of Fresnel method to calculate, 1373
ray ship positioning and tracking system, 6545
bioacoustics of fish, USSR study, 12098
biological effect of ultrasound, USSR study, 13564
combating noise and sonic vibration on ships, USSR book review, 1047
convergence-zone-measured pressures in deep ocean compared with pressures computed from sound speed depth function, 2495
effect of ultrasound and high-frequency noise on blood sugar level, USSR study, 12155
fish concentration density determined by hydroacoustics, USSR study, 17790
hydroacoustic communications system with pulse-time signal modulation, USSR study, 2263
propagation study, application to anticipation of sonic boom produced by supersonic flight, 2441
reflected velocity potential, of rigid bodies, 12422
refraction by jet flow or jet temperature, 10960
sonic fatigue characteristics of randomly excited aluminum viscoelastic panels at ambient temperatures, 9400
sonic wave velocity measurements used to determine elastic constants, strength and density of Greenland snow, 9891
ultrasonics—
emission method enables testing of adhesive bonds, 13776
method of analyzing sugar crystal-containing mass, USSR study, 10795
systematic errors in propagation parameter measurements, effects of guided cylindrical modes, 1351
Sound—Continued
ultrasonics—continued
transducer loading effects on transit time measurements, evaluating method, 1366
transducers, phase-locked-loop control for driving, 15174
ultrasound and industrial hygiene, USSR study, 13488
voiceless fricative sounds from clipped speech signal, recognition, USSR study, 4601
see also Noise—Noise suppressors.
Sound recording and reproducing equipment, *see* Tape recorders.
Sound recordings:
recordings for use of blind and other handicapped persons—
hearing, 11660
law, 17092
reports, 10217, 13134
telephone transmission of messages, unlawful unless subscriber identified, hearings, 7205
USSR all-Union scientific session devoted to radio day, 14937
Sound, The, *see* Oresund.
Sounding (meteorology):
ionospheric, distributed amplifier designed for use, 7922
thermal radiation sounding of water surface layer from radiation of heat, 16411
Sounding rockets, *see* Rockets.
Soundings, ionosounder techniques, investigation, 10959
Souris River and Valley, basin, water pollution control, comprehensive program, 17669
South (U.S.):
browse plants, seasonal twig growth, 5988
cost of transporting freight, 7538
desegregation of health and welfare services, survey, 5516
economic growth, Federal programs to encourage (address), 10020
freight, cost of transporting, 6085, 6088
fresh fruit and vegetable unloads in southern cities by commodities, States, etc., 5835
hardwood veneer logs and bolts, major defects, 10608
nonmetropolitan areas, employee earnings and hours, 17816
plastic impregnated wood, radiation produced, commercialization of process of manufacturing, 11438
rural farm population, southern region, consumer expenditures and income, 14118
rural nonfarm areas, consumer expenditures and income, 1961, supp., 2290
shrimp and shrimp fishery, 14654
shrimp landings in southern States, 767
small metropolitan areas, employee earnings and hours, 16539
Southern and border States, school desegregation, 1965-66 survey, report, 6960
urban and rural, consumer expenditures and income, 7663, 13591
wild ducks on farmland, 8146
South Africa:
atomic energy safeguards, application by IAEA for peaceful uses, agreement, 2586
background notes, 8051
Basutoland, 16844
Bechuanaland, 11235
mineral industry, minerals yearbook chapters, 9364
Basutoland, Bechuanaland, and Swaziland, 4761
South-West Africa, 6305
United States relations with, hearings, 8668, 11657, 13038, 15969
print additional copies, report, 13001

South America:
Atlantic Coast, surface water temperature and salinity, 3991
civil divisions, geographic report, 15341
east coast—
lights and fog signals, list, changes, 5055, 9581, 13894, 15237
tide tables, 10005
health information for travel in, 11184
Russian students in South America, 9140
sailing directions, change, 7956
weather, 1951–60 records, 17638
west coast—
lights and fog signals list, change, 1337, 6522, 9582, 13895
tide tables, 6987
South Arabia, Federation of:
background notes, 12518
mineral industry, minerals yearbook chapters, 4775, 17846
South Asia, *see* Asia.
South Atlantic region, *see* Atlantic States.
South Atlantic slope basins, *see* Atlantic States.
South Atlantic States, *see* Atlantic States.
South Bend, Ind., area wage survey, metropolitan area, 12211
South Carolina:
Barnwell Soil and Water Conservation District, coastal bermudagrass pasture and baled hay (colored poster), 9700
census of business, 1963, selected services, area statistics, errata, 3880
census of manufactures, 1963, manufacturing plants, location by county, industry and employment size, 14258
climatological data, 2751
coastal beaches, hurricane survey, engineer report—
departmental edition, 10436
document edition, 10102
county business patterns, 1730
electric rate book, 17658
landings, fish and shellfish, 3522, 13336
life tables, 18048
mineral industry, minerals yearbook chapter, 1143
precipitation data, hourly, 3045
South Central States, *see* Central States.
South China Sea:
sailing directions, change, 17969
western shores, sailing directions, changes, 6521, 12406
South Dakota:
census of manufactures, 1963, area statistics, 15572
climatological data, 2751
congressional districts, 90th Congress, 15599
county business patterns, 238
District Court, terms to be held at Rapid City—
law, 17130
report, 17244
electric rate book, 721
fishery products, wholesale dealers, list, Mississippi River and tributaries, 776
Indians, general information, 14763
iron resources, 6286
life tables, 18049
manufacturing plants, location by county, industry, and employment size, 1963 census, 14257
mineral industry, minerals yearbook chapter, 1144
precipitation data, hourly, 3045
Sully County Soil and Water Conservation District, windbreak of trees (colored poster), 9701
Williston basin, oilfields, 13672
South Korea, *see* Korea.
South Pacific, *see* Pacific area.
South Pacific Ocean, *see* Pacific Islands.
South Pole-Byrd supplement, seismological bulletin, 3504
South Vietnam, *see* Vietnam.
Southeast (U.S.):
bauxite deposits of southeastern United States (series), 2091, 10631
ground water levels, 4528
growth patterns in employment by county, 12694
hurricane disaster relief act of 1965—
hearing, 527
law, 439
report, 554
principal electric facilities, map, 7380
water pollution control, comprehensive project, 14649
Southeast Asia, *see* Asia.
Southeast Asian studies (Japanese periodical):
translations, 927, 942
Southeastern Forest Experiment Station:
publications 1959–63, supplement, 4483
publications, lists, 7459, 14698
station paper, 4483
Southeastern Power Administration:
appropriations, 1967, public works, hearings, 10229, 16173
quarterly report, 3444
Southeastern States, *see* Southeast (U.S.).
Southeastern University:
charter, amend—
law, 17131
reports, 15789, 16046
Southern Forest Experiment Station, publications, lists, 3454, 7460
Southern Hemisphere, *see* Hemisphere, Southern.
Southern Pacific Co., accident, 2137
Southern pine, *see* Pine.
Southern pine beetles, *see* Beetles.
Southern Pines, N.C., climatic summaries of resort areas, 5899
Southern region, *see* South (U.S.).
Southern Rhodesia, *see* Rhodesia.
Southern Ry., accident, 2141
Southern States, *see* South (U.S.).
Southern Utilization Research and Development Division, publications and patents, semiannual lists, 6717
Southwest (U.S.):
growth patterns in employment by county, 12695
principal electric facilities, map, 7378
southern High Plains, runoff water in playas, hydrology, etc., 15435
transportation of grain 1960–62, by rail and truck, 3771
South-west Africa, *see* South Africa.
Southwestern Power Administration, appropriations, 1967, public works, hearings, 10229, 16173
Southwestern States, *see* Southwest (U.S.).
Sovhozes, *see* State farms.
Sovie, Ronald J., effects of metastable atoms on volume ion production in tenuous helium plasma, 1280
Soviet bloc:
conferences in Soviet bloc (periodical), 2780
foreign trade development during years of people's authority, 10808
meteorology, meeting, lectures, tours, 9071
national guiding organs of scientific life in Socialist nations of Europe, Hungarian study, 10820
public health, 4618
public health service in rural regions, 7557
Soviet-bloc research in geophysics, astronomy, and space (periodical), 3524
Warsaw Pact, role in bloc affairs, 10351
Soviet Navy and cybernetics, USSR study, 6205
Soviet Space Coordination Computer Center, general description, 6139
Soviet Union, *see* Union of Soviet Socialist Republics.
Soviet Zone of Germany, *see* Germany.

Soward, Kenneth S., geology of damsites on Flathead River, mouth to Flathead Lake, Lake and Sanders Counties, Mont., 2105
Sowder, Arthur M., Christmas trees, tradition and trade, 11349
Sowers, Donald L., torque requirements for orientation of solar Brayton system in earth orbit, 2427
Sowing:
  aerial seeding sitka spruce and western hemlock on cutover area in southeast Alaska, 4444
  seeding conifers and buffer crops to reduce deer depredation, 17687
Soybean meal, futures trading and open contracts, 3014
Soybean nematode, *see* Nematoid worms.
Soybean oil:
  edible, publications, list, 9783
  futures trading and open contracts, 3011, 3014
Soybeans:
  diseases, 15440
  futures—
    commitments of traders, 2765
    trading and open contracts, 3014
  plant on acreage diverted from cotton, amend law, hearings, 8647
  processing and utilization, list of references, 15205
  protein products, edible, publications and patents, list, 9784
  stocks in all positions, 2595
SP series, *see* FMC SP series—MA SP series—NASA SP series—Special publication SP series.
Space, Ralph S., Clearwater story, history of Clearwater National Forest, 7450
Space:
  device removes hydrogen gas from enclosed spaces, 13775
  nature of curved space, USSR study, 4614
  open, recreational priorities, 17946
  open space for urban America, 5204
  projecting needs for schools of nursing, guide, 13965
  warehouse and storage, census of business, 1963, wholesale trade, subject report, 8326
  weakly paracompact, Hurewicz theorem, 13850
  see also Outer space.
Space Administration, *see* National Aeronautics and Space Administration.
Space age:
  exploration of moon, USSR, 17761
  life sciences in space age setting, materials structured as curriculum guide, upper elementary-junior high school, 12263
  niobium, metal of space age, USSR study, 13512
  technology utilization program of NASA for industrial and consumer benefit, 7903
Space biology:
  biological laboratory in orbit, USSR study, 6233
  radiobiology, training and operations, 5299
  space bioscience, 1958–64, significant achievements, 7752
Space charges:
  space-charge-flow computer program, 9522
  theory, thermionic conversion theoretical background, 6465
Space communications:
  information transfer systems, 9530
  radio, problems, 4988
  satellite, 1958–64, significant achievements, 7753
  short-wave communication with spaceships, peculiarities, USSR study, 7565
  strain measurements conducted on Echo II, 7817
Space environment, *see* Environment.
Space exploration, *see* Outer space.
Space flight, *see* Astronautics.
Space laboratories, biological laboratory in orbit, 6233
Space medicine, *see* Medicine.
Space Medicine Advisory Group, NASA, orbiting research laboratory, medical aspects, study, 15079
Space navigation, *see* Navigation.
Space perception, depth problems, method of simulating objects moving in depth, 9938
Space photography, *see* Photography.
Space Research Committee, Goddard Space Flight Center contributions to May 1965 meeting, 13801
Space sciences:
  and applications programs, 16712
  report to Space Science Board, 12378
  career, guidebook, 10973
  Goddard Space Flight Center publications, 1964, collection, 11084
  international symposium, Goddard Space Flight Center contributions, 13801
  microelectronics in space research, 1198
  particles and fields, 1958–64, significant achievements, 7755
  space bioscience, 1958–64, significant achievements, 7752
  technology status and trends, symposium, 6358
Space sextants, *see* Sextants.
Space simulators:
  philosophy of simulation in man-machine mission system, 10977
  vacuum technology and space simulation, 16619
  video signal processing system, 16643
Space stations:
  manned, thermal integration of electrical power and life support systems, 1181, 16590
  orbiting, passive thermal behavior, analog study, 17920
  proton scientific station, rocket-space system development, USSR study, 2191
Space structures, *see* Spacecraft.
Space suits:
  development status, 6455
  evaluation and comparison, 13815
  errata, 16653
  lunar exploration, bioenergetics, 10975
  man's self-locomotion capabilities in lunar gravity, exploratory study, 12332
  portable lightweight cell provides controlled environment in event of damage or malfunction, 15100
Space surveillance system, *see* Naval space surveillance system.
Space technology:
  career, guidebook, 10973
  Goddard Space Flight Center publications, 1964, collection, 11085
Space telemetry, *see* Telemetry.
Space Tracking and Data Acquisition Network, computer program to improve STADAN station scheduling, 9501
Space vehicles, *see* Spacecraft.
Spacecraft:
  aeroballistic launch vehicles, minimax attitude control, 2367
  aerodynamics, nose-mounted control-system jets effect in roll-control positions, 6448
  aerospace maintenance safety, 2644,
  altitude, sextant measures without gravitational reference, 7797
  Apollo—
    afterbody, heat transfer and pressure with and without ablation, 16683
    boilerplate service module, buffet response, 4895
    command module, effect of protuberances, etc., on pressure and heat-transfer distribution, 16647
    landing characteristics with deployed-heat-shield impact attenuation systems, 4901

Spacecraft—Continued
Atlas-Centaur AC–2, AC–3, and AC–4 vehicles, interstage adapter panel flutter, 1240
atmospheres, effects of 100% oxygen on ignitibility and combustibility of materials, 3797
atmospheric problems, 6283
attitude control, use of rotating-solid-rocket control system, errata, 15132
axisymmetric launch vehicles, analytic longitudinal response analysis, 4808–9
Brayton cycles—
gas-to-liquid heat exchangers, 9430
errata, 10939
power generation system, cold performance evaluation of radial inflow turbine, 4898
ceramics as structural materials, 17883
coating—
pigmented, resists thermal shock, 1229
special, for temperature control, 1213
communications satellite system, final report of Relay I program, 1195
computer program for calculating charge distribution about space vehicle, 6346
control moment gyro optimization study, 7726
control systems, nose-mounted rotating-solid-propellant rockets, 7855
delta-planform canard controls, divergence characteristics, 7898
design reliability goal developed from small sample, 16628
digital stabilization and control system study, 13713
docking—
Gemini-Agena, study using fixed-base simulator employing closed-circuit television system, 2414
simulated task, role of prediction in training, 13910
electrical power management survey manual, errata, 1200
electromagnetic forces on space structures, 10945
environmental physiology, 6282
fasteners and fastener materials, evaluation, 4814
flight in space training vehicle, USSR study, 4650
flight parameters and vehicle performance for Project Fire flight II, 15176
Gemini—
configurations, damping and stability in pitch and yaw, 7854
left-hand window, effects on experiments requiring accuracy in sighting or resolution, 17927
parachute landing system, 12364
Gemini-Agena, pilot-controlled docking, effect of target angular oscillations, 9528
guidance—
and control devices, orbital testing requirements, 4812
linear theory of impulsive velocity corrections, 7878
heat shield, clamshell-type, deployment from parent vehicle, 7831
integrated display development, 10944
interplanetary missions, chemical stages in 300 to 400 second specific impulse range, performance analysis, 2434
interplanetary monitoring platform—
(IMP) performance, computer analysis, 7860
IMP–I–Explorer XVIII, flight report, 7870
IMP–I magnetic test program, 7885
IMP–II Explorer XXI, flight report, 11048
interplanetary vehicles, low-thrust, optimal celestial-inertial navigation concept, analysis, 10938
Spacecraft—Continued
landings—
fragmenting-tube energy-absorption, 6442
prediction of inversion load of circular tube, 16685
lateral-range and lift-drag-ratio requirements for return to both optimum and nonoptimum recovery sites, definition, 11079
launch vehicles—
checkout, current measurement, 16665
clustered, vibration, analysis, 1260
comparison of wind-tunnel and flight pressure measurements, 6445
digital adaptive filter, etc., control techniques applied to large vehicles, 9431
empirical method for determining static distributed aerodynamic loads, 7833
large flexible, extracting rigid-body motion from total motion, frequency independent technique, 1272
piloted, simulation investigation of loads experienced, 7836
transonic pressure distributions over protuberances and adjacent areas in proximity to nose, 7821
unguided, aeroelastic divergence, 7832
living in space, 13721
low-frequency noise reduction, 16605
lunar landing, research vehicle, landing dynamics study, 9403
manned—
life-support systems, application of radioisotopes, 9923
Mars landing mission using electric propulsion, 4940
Mars mission by means of high-thrust rockets, 4929
meteorological observations, USSR study, 16409
thermal regulation for cabins, 7867
vehicles entering earth's atmosphere at hyperbolic speeds, minimization of heat input, 9544
manufacturing occupations, employment outlook, 9292
Mariner—
report, 13720
report from Mars, 9443
Mariner-Venus 1962, final project report, 4833
Mars entry vehicle, conceptual design for damping system, 15042
materials and equipment, effect of meteoroid, environment, 4834
materials handbook, 6355
membranes of revolution, nonlinear membrane solutions, 7835
momentum-exchange system, removal of angular momentum, 7844
multistage launch vehicles, payload optimization, 4938
nonstationary, vibration data, spectral analysis, 1191
nuclear power generators, bearings, 5591
nuclear space program, organization and plans (address), 166
optimal filtering and linear prediction for midcourse navigation and guidance system, effect of reduced computer precision, 7890
optimum earth re-entry corridors, 6342
orbits, determination with respect to object in known circular orbit, 15150
orientation control systems, use of photovoltaic solar sensor, 6447
pacing systems of Apollo program, 1868
peaceful uses of earth-observation spacecraft, 16602–604
planetary-entry configurations, dynamic-model study, 13818
pointed and blunted 30° half-angle cone at Mach numbers from 11.5 to 34 in air, experimental stability and drag, 4939

Spacecraft—Continued
power systems—
electromagnetic alkali metal pump research, 6332
one-megawatt, use generator with superconducting magnetic field, 7864
partially segmented direct-condensing radiators, weight study, 4963
Project Ranger, general information, 1193
Project Surveyor, report of Subcommittee on NASA Oversight, 530
propellant consumption, round-trip trajectories to Mars, 4967
propulsion, electromagnetic accelerators, 7853
radiator panels utilizing shared fins, heat-rejection characteristics, 15189
Ranger—
photographs of moon, 12280–281
view of moon, 12277
Rankine space power systems, AIAA specialists conference, 12673
reentry vehicles—
blunted cone, longitudinal aerodynamic characteristics, 7848
M2–F1 lifting body flight vehicle, longitudinal aerodynamic characteristics, 6468
phenomena at hyperbolic velocities, Project Fire photographic summary and record, 17913
pilot guidance and control, 1189
slab delta planforms, effect of thickness, etc., 12345
response, effects and importance of penetration and growth of lift, 1186
Saturn IB/Apollo upper stage, supersonic/hypersonic aerodynamic investigation, 4819
scientific, stored space program computer, 17917
Scout vehicles, Marc 36A1, 1–K8–75 spin motor, design, test, and documentation, 4816
self-sealing structures for space vehicle application, evaluation, 10953
separation trajectory characteristics resulting from separating 2 vehicles in near-earth orbits, 2406
SERT–I, thrust measurement of ion thrustors, 9532
short-wave communication with spaceships, peculiarities, USSR study, 7565
SNAP nuclear space reactor, principles and uses, 15551
soft lunar landing, Monte Carlo approach to touchdown dynamics, 1279
space measurements survey, 13727
space vehicle structures, blast effects, 4897
stiffness properties of foam-filled fabric structures, 7825
Surveyor I, preliminary report, 12283
Syncon III launch, 7886
systems—
inertial experiment pointing and attitude control, 15202
integrating, 7813
temperature controller, 7842
tension shell entry configuration, longitudinal aerodynamic characteristics, 15159
thermal protection system, charring ablation analysis, 2432
thermoelectric generator, high-temperature radioisotope, 9928
thermostatic fin temperature control, design considerations, 10966
Thor vehicle structure, longitudinal vibration, 17916
thrust-vector orientation technique, simplified, for establishing lunar orbits, 6458
TOS project, 13852
turbine, radial-inflow, designed for Brayton-cycle space power system, cold performance evaluation, 4977
Spacecraft—Continued
two-stage launch vehicle, supersonic investigation of effects of configuration geometry on pressure-coefficient and section normal-force-coefficient distributions, 15139
vacuum technology and space simulation, 16619
vehicles, Federal item identification guides for supply cataloging, supplements, 2940
Voskhod—
crew, results of physiological and biochemical examinations of members, 12149
Soviet space vehicle, superior technical features, 14863
space walk, medical conclusions, USSR study, 9076
water vapor jets for attitude control systems, 13846
wind loads on vertically launched vehicles at various geographic locations with launch altitudes, 6444
see also Satellites.
Spaceship crewmen, astrostomatology, dental standards for selection and examination of space crewmen, 12641
Spaceship crews, Voskhod members, results of physiological and biochemical examinations, 12149
SPAD (Satellite Position Prediction and Display) equipment, *see* Electronic computers.
Spady, Amos A., jr., exploratory study of man's self-locomotion capabilities with space suit in lunar gravity, 12332
Spain:
atomic energy cooperation for civil uses, agreement, 12536
education, data, 14549
labor conditions, 13645
loan of helicopter carrier, law, 426
loan of vessel, agreement, 15353
machine tools and other metalworking equipment, foreign market survey, 178
mineral industry, minerals yearbook chapter, 7703
pocket guide, 6824
space research, measurement of high altitude winds and temperatures, agreement, 12538
tracking stations, agreement, 5166
trade, agreement relating to GATT, 2581
Spakowski, Adolph E.:
effect of moisture on cadmium sulfide solar cells, 17924
thermal cycling of thin-film cadmium sulfide solar cells, 16657
Spalding, Donald H., appearance and decay of strawberries, peaches, and lettuce treated with ozone, 16928
Spanish Peaks, Mont., primitive area, mineral resources, 12015
Spanish War Veterans, *see* United Spanish War Veterans.
Spanish West Africa, Spanish Sahara, background notes, 1486
Spanworms, elm, individual eggs from mass-depositing insect, 14709
Spare parts, *see* Repair parts.
Spark source mass spectrograph program, 7920
Sparta project, *see* Project Sparta.
Spasmolytic action of new oximes, 14813
Spatial disorientation:
causes, preventive measures, etc., 14189
demonstrator program, 1624
Spatz, Laura H., productivity, bibliography, 16536
Speaker, W. V., spectra, etc., of fluctuating pressures at wall beneath supersonic turbulent boundary layer, 10954
Speaking of space and aeronautics (series), 1288, 9551, 12379, 13851
Special analyses, Budget of United States, fiscal year 1967, 5432

Special announcements from Clearinghouse for Federal Scientific and Technical Information, 3529
Special Assistant to the President for Consumer Affairs, Office of, press releases, 3407
Special courts-martial instructional guide for presidents, 5065
Special current business reports (series), 8368
Special publication SP series, 12410–411, 13900, 15239
Special reports, Cold Regions Research and Engineering Laboratory, 117, 1638, 3817, 8244, 9890, 11397, 14211
Special Representative for Trade Negotiations, Office of:
  appropriations, 1967—
    hearings, 15955
    reports, 15938, 17539
Specialists:
  job placement, shortcomings in USSR plan, 16480
  mineral specialist, examination announcement, amdt., 17034
  training—
    higher and secondary specialized education, improve, USSR study, 16470
    tasks of research institutes, 4669
  see also types of specialists, or occupations.
Specific electronic charge:
  charging submicron carbon powder for colloidal particle thrustors, 16703
  high charge-to-mass ratio provided by dust particle injector for hypervelocity accelerators, 13782
Specific gravity, Maine conifers, estimating, 10595A
Specific risk investment guaranty handbook, 2133
Specifications, *see* Government supplies—*also* names of departments, etc., issuing specifications—*also* subjects.
Spectacles, dispensing of eyeglasses by physicians, hearings, 7221
Spectra:
  absorption, atmosphere from 8512 to 11,800A, atlas, 6553
  alpha-radiation spectra from thick emitters, approximate method of calculating, USSR study, 2149
  band spectrum of carbon monoxide, 13859
  differential energy and angle, for 137–Cs gamma rays in sand, determination, 11423
  distribution functions, molecular band systems, air radiation tables, 15060
  electromagnetic spectrum utilization, the silent crisis, 17054
  emittance of aluminum oxide and zinc oxide on opaque substrates, 1277
  energy spectrum (remarks), 11161
  fluctuating pressures at wall beneath supersonic turbulent boundary layer, 10954
  gamma spectrum measurements, SNAP 8 radiation effects test program, 7745
  infrared, plastics and resins, materials developed since 1954, 16766
  ionospheric layers in infrared region, USSR study, 14794
  mass—
    and correlations with structure for butylthiophenes, 7710
    and infrared unsaturated hydrocarbons and oxygenates, 17863
    spectra of organic sulfur compounds, 4788
  nonstationary spacecraft vibration data, spectral analysis, 1191
  particle spectrum determination by transparency method for large particle concentration, 16410
  photoelectric detection of weak spectrum lines, 6345
Spectra—Continued
  post pulse gamma-radiation, Operation BREN, 11420
  ultraviolet, absorption cross sections, 4826
  wind-wave angular spectrum, USSR study, 16413
  X-ray, of atoms in polar crystals, absorption, USSR study, 1050
Spectral analysis and parametric methods for seasonal adjustment of economic time series, 273
Spectral lines, carbon dioxide, positions and intensities calculated for 2.05 and 2.7 micron regions, 9555
Spectrochemical Analysis Section, NBS, activities, annual report, 16718
Spectrograms, spectrozonal aerial photographs for topographic interpretation, USSR study, 14900
Spectrographs:
  instrumentation for primary and secondary excitation of low-energy X-ray spectral lines, 1161
  mass, spark source program, 7920
  multigap magnetic, duty-free entry, 389, 542, 17189
  split pole, universities, duty-free entry, 373, 388
Spectrography, spectrographic analysis of natural water (series), 17726
Spectrometer-gas chromatographs, *see* Chromatographs.
Spectrometers:
  gamma spectrometric measurement for recovery of U–235 in absolute air filters, 8291
  mass—
    analysis of DC 704 diffusion-pump oil fragmentation, 1248
    double focusing magnetic, for satellite use, 6422
    duty-free entry, 373, 378–379, 389, 542, 16130, 17184, 17332
    highly sensitive solids, uses inert-gas ion source, 7773
    instrumentation of NBS Analytical Mass Spectrometry Section, 15209
    operating parameters of omegatron in ultrahigh vacuum, 4908
    submicron holes in thin films increase sampling range, 15110
  submillimeter interference spectrometer, characteristics, performance and measurements, 10961
Spectrometry:
  homogeneity characterization of NBS spectrometric standards for cartridge brass and low-alloy steel, 5007
  mass, investigation of reaction of oxygen atoms with methane, 7883
  mass spectrometric determination, synthetic boron isotopic mixtures, preparation, 11426
Spectrophotometers, flame, use for determination of biologic calcium, analysis, 5336
Spectrophotometry:
  cell with 4 variable compartments for rapid infrared analysis, 10925
  determination of gallium in plutonium-gallium alloy, 3847
  report, 5012
  Trailblazer I payload reentry events, photometric analysis of spectrograms, 9520
Spectroradiometry, data reduction for filter, 1249
Spectroscopy:
  beam splitter used in dual filming technique, 6398
  electron paramagnetic resonance, for studying surface defects and adsorbed molecules, 7871
  infrared, xanthate-galena system, 15021
  instrumentation for primary and secondary excitation of low-energy X-ray spectral lines, 1161

Spectroscopy—Continued
mass, bibliography of literature, compiled by computer method, 15533
temperature measurement method which does not require transition probabilities, 6333
Spectrum, *see* Spectra.
Spectrum analyzers, swept frequency, in-flight vibration analysis, design equations, 15196
Speculation:
futures trading and open contracts—
cotton, wool, wool tops, cottonseed oil, soybean oil, 3011
eggs and potatoes, 3012
potatoes and rice, 3013
wheat, corn, etc., 3014
Maine potato futures, 8444
wheat, corn, oats, rye, soybeans, eggs, commitments of traders, 2765
wool, cottonseed oil, potatoes, futures, commitments of traders, 2764
Speech:
discrimination—
connection between motor theory and general problem, USSR study, 4688
expanded test using CNC monosyllabic words, Northwestern University auditory test, 15489
disorders, summary of progress, 1314
intelligibility, monaural and binaural, 14993
pattern recognition, USSR study, 10709
pure-tone acuity and intelligibility of everyday speech, 13667
segmentation principles, 939
Speeches, *see* Addresses, lectures, etc.
Speed, of reading in high school, 11881
see also Air speed.
Speer, Paul R., low-flow characteristics of streams in Mississippi embayment etc., 6032, 10641
Spencer, Bernard, jr., transonic aeodynamic characteristics of series of related bodies with cross-sectional ellipticity, 6421
Spencer, Carrol D., consumption of commercial fertilizers and primary plant nutrients in U.S., 16870
Spencer, John D., Mines Bureau coal program, 16559
Spender, Stephen, lecture, Oct. 11, 1965, 17821
Spending and saving in urban and rural areas, 2293
Sperry Rand Corp., Univac Division, overhead costs charged to Government contracts, GAO report, 9000
Spheres:
accelerating in viscous fluid, proposed equation for calculation of forces on, verification, 15508
blunt axisymmetric bodies in supersonic spherical flow, numerical solutions, 7891
buckling of complete spherical shells, 15057
device spot-laps spheres to very close tolerances, 9482
dielectric, values for scattering in region of first resonance, 12439
dual calsphere experiment, 1365
Green's function approach to vibration of thin spherical shell segments, 16611
hollow spherical rotors fabricated by electroplating, 15097
spherical—
earth satellites in rarefied partially ionized atmosphere, electromagnetic torques, 6471
shell with non-axisymmetric boundary, 16595
Spheroids, geodesy, computing problems, USSR studies, 922
Spices, foreign agriculture circulars, 2987
Spiegelman, Robert G., analysis of urban agglomeration and its meaning for rural people, 13263
Spillways:
box-inlet drop, hydraulic design, 8143
Canneiton Locks and Dam, Ohio River, hydraulic model investigation, 5889
chute flow at Fort Randall Dam, 10443
Hannibal Locks and Dam, Ohio River, Ohio and W. Va., hydraulic model investigation, 13297
low-head navigation dam, Arkansas River, Ark., hydraulic model investigation, gate sills and stilling basins for locks and dams 5 and 7, 1991
Shelbyville Dam, Kaskaskia River, Ill., hydraulic model investigation, 11897
tainter gates, engineering and design manual, 17632
Spin (aircraft):
effects of applying thrust on recovery, 12341
Spin (atomic):
eigenfunctions and eigenvalues for linear chain of atoms, 11100
Spin waves, theory of ferromagnetism, significance of dimensionality, 11099
Spinal cord:
Clinical Spinal Cord Injury Conference, 1964, proceedings, 6687
dog, effects of profound hypothermia, histologic study, 80
injuries and diseases, research funds—
hearing, 8787
report, 16140
Spindler, Pearl G., expanding opportunity in private household employment, 4326
Spleen, immune response, chemical protection against radiation damage, 15494
Splices, nonmetallic waterstops, water retentivity and tensile strength, 4342
Splines (coiled):
flexible, securely joins mating cylinders, 9479
Spokane, Wash., area wage survey, metropolitan area, 14973
Spokane Reservation, timber, potential for intensive management, 10660
Sponsors, Neighborhood Youth Corps, financial management requirements, 13588
Sport fisheries, *see* Fish and fisheries.
Sport Fisheries and Wildlife Bureau:
appropriations, 1967, hearings, 7113
resource publications (series), 2045, 7439–40, 10537, 11977, 14674, 16311–312, 17677
resource status reports, 765–766
technical papers, 7444, 14679
unauthorized use of management and investigations of resources funds for new construction, GAO report, 16351
wildlife research problems, programs, progress, 17677
Sporting goods:
bibliography, 16821
Federal item identification guides for supply cataloging, supplements, 2939
sporting and athletic goods, census of manufactures, 1963, industry report, 3906
Sports:
electronic trainer by laboratory for sports cybernetics, USSR study, 6164
teaching lifetime skills, manual, 13948
Spot welding, *see* Welding.
Spray towers, vapor reheat, liquid-liquid heat exchange process, 14772
Sprayers, low-volume mist, for applying insecticide concentrates from ground equipment, 9772
Sprays and spraying:
aerial spraying of—
low-grade hardwood stands with 2,4,5–G in West Virginia, 10569
malathion, control of pine needle-sheath miner, 17689

Sprays and Spraying—Continued
plasma-sprayed alumina coatings on stainless steel, shear bond strength analysis, 1275
spray deposit, new method for assessment, 8965
spray-on technique simplifies fabrication of complex thermal insulation blanket, 6379
tree marking system improves forest spraying operations, 8952
water protects stored logs in Hilo, Hawaii, 10574
Spread footing foundations on snow, 14212
Spreaders for preparation of uniform plates for thin-layer chromatography, 8954
Sprecher, William M., world-wide defense expenditures and selected economic data, 8227
Spreemann, Kenneth P., longitudinal aerodynamic characteristics of powered 4-duct-propeller VTOL model, 9507
Spring, mean date of last 32°(F.) temperature, map, 8866
Spring-flowering bulbs, 12604
Spring Garden Planting Week, designate, report, 16085
Springfield, H. W.:
adaptability of forage species for pinyon-juniper sites in New Mexico, 4452
effects of 3 years' grazing on crested wheatgrass lambing range in northern New Mexico, 13367
Springfield, Mass.:
commodity transportation survey, production area series, 8340
principal electric facilities, map, 7374
wholesale food distribution facilities, 48
Springfield, Ohio, commodity transportation, production area series, 9956
Springs (mechanism):
diaphragm spring gives clutch over-center toggle effects, 15094
Springvale, Ga., bauxite occurrences in area, 2091
Spross, Patricia M., elementary arithmetic and learning aids, 4301
Spruance, Raymond A., naval leadership, study in command, 12412
Spruce:
black, Lake States, botanical and commercial range, 5985
blue spruce, central North Dakota, performance of 7 seed sources, 14704
Engelmann—
bleached groundwood, kraft, and sulfite viscose-grade pulp, suitability for pulping, 2075
northern and central Rocky Mountains, site index curves, 10567
Sitka—
aerial seeding on cutover area in southeast Alaska, 4444
phenology, and oviposition preference of black-headed budworm, 13360
pruning in Alaska, test, 13357
young-growth, in southeast Alaska, volume tables and equations, 8960
white, botanical and commercial range in Lake States, 5984
Spruce Knob-Seneca Rocks National Recreation Area, establish, hearings, 4118
Spur gears, *see* Gears.
Sputtering arc, improved carbon electrode reduces, 4863
Square root:
computation simplified with delayed ripple counter, 1219
mean square and elliptical errors methods used to determine accuracy of points in pulsed-sound range finder measurements, 910
Squaw Creek National Wildlife Refuge, birds, list, 16307
Squillace, A. E., racial variation in slash pine as affected by climate factors, 16339
Squires, C. K., corrosion protection methods and materials in Sweden, 176
Srawley, John E., hydrotest failure of Thiokol Chemical Corporation motor case, 4894
SRS series, 15383, 18128
SSC, *see* Ship Structure Committee.
Staats, Elmer B., nomination, hearing, 5814
Staatz, Mortimer H., geology of Garns Mountain quadrangle, Bonneville, Madison, and Teton Counties, Idaho, 9010
Stabe, Roy G., cold-air performance evaluation of scale model oxidizer pumpdrive turbine for rocket engine, etc., 6457
Stability:
coupled-core nuclear reactor systems, 9421
deck motion of aircraft carriers, determination, 1354
flotation, characteristics of right-circular-conic frustum, 7845
homophase aerosols and its artificial regulation, USSR study, 2211
lateral stability of deep beams with shear-beam support, 5991
local, sandwich shells of revolution, 6474
Lyapunov equation, transient response, 11057
maintained by preamplifier circuit over wide temperature range, 10646
role of conductivity in hydromagnetic stability of parallel flows, 2428
thermal, improved by substituted silanediol polymers, 12301
ultra shortwave signals along medium range mountain routes, USSR study, 7556
Stability of aircraft:
configurations with conard controls, hypersonic aerodynamic characteristics, 9515
dynamic, VTOL airplane, fan-in-wing model, flight investigation, 13807
four-duct tandem V/STOL transport, flight investigation, 9502
Gemini configurations, oscillatory stability in pitch and yaw, 7854
lateral-range and lift-drag-ratio requirements for return to both optimum and nonoptimum recovery sites, definition, 11079
longitudinal stability and control characteristics of powered model of twin-propeller deflected-slipstream STOL airplane configuration, 13808
rough surface improves stability of air-sounding balloons, 2377
static characteristics of cone and half-cone-pyramid configurations, 15162
tilt-wing V/STOL transport, powered ⅛-scale model, static and dynamic longitudinal stability derivatives, 16670
Stability of spacecraft, *see* Spacecraft.
Stabilization:
economic, today's inflationary pressures (address), 14320
India's worker class, economic status after independence, 4597
passive gravity-gradient, NASA symposium, 16620
shortrun, tax changes effects—
hearings, 10094
subcommittee report, 10095
Stackhouse, Stirling P., intraspecies biologic and behavioral variability, 14193
STADAN, *see* Space Tracking and Data Acquisition Network.
Stadiums, District of Columbia, construction, change orders and other matters, review, 14733
Staff development, *see* Administrative management.
Stafford, Walter H., performance analysis of chemical stages in 300 to 400 second specific impulse range for interplanetary missions, 2434
Stages and discharges of Mississippi River and its outlets and tributaries, 13704

Stagnation point:
arbitrary equilibrium gas mixtures, solution, 4957
enthalpy in Langley hotshot tunnel, 7827
Stalman Bros.-Simon Wrecking Co.:
relief, 1892
veto, 457
Stained glass:
free entry for—
Congregation Emanuel of Denver, Colo., 7175, 8450
Our Lady of Angels Seminary, 5721, 5573
Stainless steel:
and aluminum, brazing process provides high-strength bond, 13787
electrolytic etching process provides effective bonding surface, 13736
fiber length and orientation prevent migration in fluid filters, 13754
honeycomb structures, USSR study, 16424
PH 15–7 Mo (TH 1050), fatigue-crack propagation and residual static strength, 2433
plasma-sprayed alumina coatings, shear bond strength analysis, 1275
plastic plus stainless-steel fibers make resilient, impermeable material, 2393
special 301-type, improved for cryoformed pressure vessels, evaluation, 11067
Stalingrad, RSFSR, defense, Marshall Vasilevskiy gives details, 2160
Stall (aircraft):
deep-stall pitch-up characteristics of T-tail transport aircraft, parametric study, 13803
Stall barns, *see* Barns.
Stallman, R. W., measurement of hydraulic diffusivity of wedge-shaped aquifers drained by streams, 13408
Stamford, Conn., commodity transportation survey, production area series, 8340
Stamler, Jeremiah, proceedings against, report, 17340
La Stampa (periodical):
index, 3053
La Stampa sera (periodical):
index, 3053
Stamper, John W., aluminum, 17832
Stamping, *see* Metal stamping.
Stamps, *see* Food stamps—Migratory-bird-hunting stamps—postage stamps.
Stanczyk, Martin H.:
chemical processing of Florida phosphate rock slime, 17853
continuous attrition grinding of coarse kaolin, 1165
oxidation leaching of copper sulfides in ammoniacal pulps at elevated temperatures and pressures, 13692
Standard Magnetic Observatory, *see* Automatic Standard Magnetic Observatory.
Standard Reference Data Office, NBS, national standard reference data system, status report, 11098
Standard reference data system, *see* National standard reference data system.
Standard reference materials, NBS, 1293
Standards and Conduct, Select Committee on, House, create, report, 15903
Standards and Conduct, Select Committee on, Senate:
hearings, 16198
rules of procedure, 13231
Standards and standardization:
bionics application to field of standardization, USSR study, 10712
cataloging and standardization program, semiannual reports, 1846, 5684
commercial standard series, 1290, 11089, 12381–382, 13856–857, 17936
Defense Department—
specifications and standards, index, 14519
supplement, 3055
Standards and standardization—Continued
Defense Department—Continued
standardization—
documents, supply classification listings, 2965, 14517
policies, procedures, etc., manual, 3533, 13245
directory SD series, 7270, 16214
Federal specifications and standards, index, 7426
supplements, 3052
Federal standards, 736–737, 4395–96, 7423, 10516, 11953–955, 14644, 16289, 17665–667
guide, 4508
Federal test method standards, 4397, 7424, 14645
military standardization handbook, 10394
military standards, 4257, 7263–66, 8813–14, 10394, 11849–853
national standard reference data system, extend service—
hearings, 15989
report, 12997
standard allowance of test equipment, FAA handbook, 8873
standard reference materials, 16714
NBS cartridge brass and low-alloy steel, 5007
NBS radioactive nuclides, half-lives of materials used in preparation, 1294
standardization manual M series, 5856, 13245
see also Military standards—*also* subjects.
Standards for juvenile and family courts, 9976
Standards of statistical presentation, 9894
STANDIVE, Fortran solution of decompression equations, 13666
Standoff tool speeds placement of friction-fit electrical terminals, 1223
Stands, managed, yield tables with special reference to Black Hills, 13373
see also types of stands.
Stanford University, mass spectrometer, duty-free entry, 378
Stannic oxides, ceramics, electrical properties, 4831
Stanislaus National Forest, Pinecrest Recreation Area, owners of summer homes, relief, hearing, 11640
Stankiewicz, Norbert, limits of validity of radiationless decay of high-density plasmas, 11049
Stannous fluoride:
prophylaxis pastes—
performance, 8208
protection of enamel surfaces, 6816
Stanton, Beryle E.:
communications vital to cooperatives, 14592
news for farmer cooperatives, 3270
Staphylococcus isolated from monkeys and their human handlers, 'phage type and antibiotic sensitivity, 8207
Stapleford, R. L.:
pilot describing function measurements in multiloop task, 15052
transfer function approximations for large highly coupled elastic boosters with fuel slosh, 9433
STAR, *see* Scientific and technical aerospace reports.
Star Mine, rock deformation measurements, analysis, 9370
Star routes, *see* Postal service.
Starbird, I. R., cost of producing upland cotton in United States, 17616
Starch, trade and tariff, information, summaries, 14045
Stark, Kenneth W., endless-loop tape transports for satellite applications, 11050
Stark, Lawrence, biological control systems, critical review and evaluation, 16598
Starkey Experimental Forest and Range, flora, general information, 10554

Starr, Fred E., relief, 12867
Stars:
ancient novae and supernovae recorded in annals of China, Korea, and Japan and their significance in radioastronomy, 4993
catalogs, 6518, 9646
ephemeris, 1098, 17819
measuring angle between stationary simulated star and stationary blinking light, sextant sighting performance, 13822
observations, spectrophotometry of surfaces, etc., 12375
Starting and managing series, 9645
State aid, *see* Grants-in-aid.
State and local government employment and payrolls, 3534
State and Municipal Bond Week:
designate—
law, 8473
report, 8564
State banks:
member banks of Federal reserve system, list, 4392
supplements, 3535
membership in Federal reserve system—
regulations, 16284
weekly changes, 2743
State boards and departments of education, *see* Educational boards and departments.
State courts:
habeas corpus, applications for writs by persons in custody pursuant to judgments, reports, 15884, 17555
reform, deduction for income tax purposes of contributions to organizations, reports, 5658, 13162
State Department:
appropriations, 1967—
hearings, 15958, 17567
reports, 15938, 17348, 17539
Assistant Secretary for Inter-American Affairs, nomination of Lincoln Gordon, hearing, 5809
background notes, 1479–88, 6621–27, 8037–54, 9714–17, 11235–246, 12515–519, 14024–28, 15337, 16844–853, 18106–113
biographic register, 12520
bulletin, 2849
career opportunities, secretaries, stenographers, typists, 8067
commercial policy series, 9718, 15338, 18115
communications and records, career opportunities, domestic and overseas assignments, 2574
counselor, nomination of Robert B. Bowie, hearings, 14481
cultural presentations, USA, report, 18119
department and foreign service series, 8055, 9719–20, 12520, 15339, 16854
Deputy Undersecretary for Political Affairs, nomination of Foy D. Kohler, hearings, 17579
diplomatic reception rooms, description, 12521
dollar savings possible through expanded use of foreign currencies to transport personal effects abroad, GAO report, 14728
educational exchange programs, obtaining contributions, GAO report, 8983
embassy construction projects, etc., use of American-made materials, GAO report, 8992
exchange service for U.S. Government personnel, suspension, GAO report, 810
foreign affairs personnel, establish unified system, hearings, 11805
foreign assistance appropriations, 1966, report, 545
foreign assistance appropriations, 1967, hearings, 13014
general information, 9719
indexes, living costs abroad, 2305
State Department—Continued
information about work and present building, 18116
international information and cultural series, 1490, 12524, 18119
news letter, 2850
public information materials, list, 12523
publications, list, 3509
reorganization, hearings, 4224, 8778, 10349, 14484, 17582
Secretary of State and coordination of overseas activities, 8779
security, investigation, hearings, 586, 4229, 7223–24, 8781–82, 10357, 11820–821, 17588
telephone directories, 1493, 11260, 15344
Under Secretary—
nomination of Nicholas deB. Katzenbach, hearings, 17579
Political Affairs, nomination of Eugene V. Rostow, hearings, 17579
United States activities in Viet Nam, internal audits and inspections, GAO report, 13385
use of dollars rather than foreign currencies to pay U.S. expenses in Korea, GAO report, 812
State Departments of Education, Advisory Council, *see* Advisory Council on State Departments of Education.
State farms, soykhozes, key personnel, raising qualifications, USSR decree, 6214
State finances series, 1739
State of the Union, *see* United States.
State postal map series, 13927–946
Statements, *see* Addresses, lectures, etc.
States:
age discrimination prohibited, laws, 9199
agencies, disposal of Federal surplus property for education, etc., hearing, 14482
agricultural conservation program, 1964 summary by States, 1581
agricultural workers status under State and Federal labor laws, 4705
agriculture departments, directory, 590
boundaries, with geographic information concerning areas, etc., 6030
brucellosis eradication activities, 1576, 3556
certification of interstate milk shippers under State-PHS cooperative program, 5113
child labor standards, summary, 4703
citrus fruit production, use, value, 16869
civil defense—
Federal contributions available, 11491
policy regulations of AFL–CIO, change, 5512
climates, 13299
congressional districts, redistricted for 90th Congress, 15598–610, 17013–17
constitutions, proposed changes, deduction for income tax purposes of contributions to certain organizations, report, 13162
construction expenditures, 3935, 11477
cost standards for basic needs for old-age cases and families receiving aid for dependent children, Jan. 1965, revised table, 7343
debt pooling—
and garnishment, laws, 12205
laws regulating or prohibiting, 12204
dental health programs, digest, 12463
Education Dept. personnel for guidance, counseling, and testing, directory, 7301
education, improving leadership, 16234
educational records and reports series, 8842
glossary of standardized items and terms presented in handbooks, 13269
employee-retirement systems of State and local governments, 1964–65 finances, 3934
employment and earnings statistics, 13593

States—Continued
equal pay—
laws, reasons for, 12573
legislation, what you want in bill, 5252
farm mortgage debt, Jan. 1, 1965, estimates, 1972
Federal expenditures, distribution and impact, study, 13213
Federal grants—
air pollution control—
act, amendments, description, 2107
programs, staff study, print additional copies, report, 7195
child development specialist employment for elementary schools—
hearings, 5689
report, 5676
children's summer lunch program to provide assistance to youth centers, establish—
hearings, 13030
report, 8634
health planning and services—
hearings, 7230, 17386
reports, 16161, 17308
highway construction act of 1966—
hearings, 10262, 10264, 10368, 11831
reports, 12949, 12974, 13169
section-by-section analysis, 14441
highway safety act of 1966—
laws, 15742, 15749
reports, 12946, 12993, 16078
library services and construction act, 1966, Federal allotments and required matching expenditures from State and local sources, 1978
medical assistance under title 19 of social security act, limitations, report, 17282
technical services programs—
fact sheet, 11527
special merit programs, 11528
steps for State participation, 11529
training professional health personnel, report, 17269
Federal-State service, retirement credit, hearing, 17596
feed consumed by various classes of livestock, 16941
forestry schools, list, 10556
fresh fruit and vegetable shipments, 10373, 14508
government—
education directory, 11872
employment should be based on principles of democracy (remarks), 9196
finances, 1964, compendium, correction, 1739
finances, 1965—
compendium, 8367
summary, 6933
Governors views on tax incentives and effluent charges for water pollution control, report, 7092
grants under Older Americans act, for community planning, services, and training, 4
guidance specifications for positions in aging, 1571
health—
authorities, 1966 directory, 16793
education, and welfare trends, data and rankings, 16365
insurance coverage, 6612
higher education, legislation, 17626
highway beautification program costs, 1967 estimate, instruction manual, 11204
income tax, withholding from compensation of Federal employees, regulations, rescissions, 15395, 15397
industrial relations legislation, mediation laws, summary, 4707
inheritance laws, digest, 11307
internal security and subversion, principal laws and cases, study, 581
States—Continued
interstate carriers water supplies, inventory, 15285
interstate taxation act—
hearings, 10253, 11669
report, 17232
invention expositions—
description, etc., 2452
plan for developing, 5003
labor laws for women, summary, 12570
labor legislation, 4710
annual digests, 4704, 7652
labor relations act, summary, 4706
land-grant colleges and universities, Extension Service review (periodical), 2902
law enforcement, Federal assistance—
amend law, hearings, 14429
hearings, 582
laws—
transportation and textbooks for parochial school students, 16241
weightlifting provisions concerning employed women, 6703
legislative program of Advisory Commission Intergovernmental Relations, 16916
legislatures, apportionment, report, 5776
library extension resources and services, 11882
loans for college education, programs authorized by higher education act, 17622
local occupational information, reports by employment offices, list, 13286
McIntire-Stennis cooperative forestry research program, administrative manual, 14132
manufactures, 1964, general statistics, 14249
market news reports, directory, 13233
marketing order legislation, fruit and vegetables, 17949
marriage records, where to write, 9635
medical assistance program, questions and answers, 17641
mental health authorities, conference with Public Health Service, proceedings, 5114
mental hospitals, patient movement, etc., 5029
merit systems—
directory, 7494
extend to additional programs financed by Federal funds, hearings, 17581
milk certification program cooperation with Public Health Service, 13964
minimum wage laws, 11326
and orders, analysis of rates and coverage, 5233
summary, 5251
weapon in war on poverty, 15431
minimum wages, what a good bill does, 11331
nomination and election of U.S. Senators, laws, guidebook, 10276
print as Senate document, report, 10294
officials enforcing food, drug, etc., laws, directory, 5967
personal income taxes, Federal-State coordination, 3723
population—
estimates, 3929
voting age, project estimates, 11470
postal maps, 13927–946
private employment agencies, laws regulating, summaries, 7653, 12206
problems and the future (remarks), 363
professional mental health personnel employed, 11105
professional workers in agricultural experiment stations and other cooperating institutions, 5286
proposals in agricultural policy and implications to Marketing Divisions of State Departments of Agriculture (statement), 4233

States—Continued
public assistance—
and child welfare plans under social security act, staff development provisions, 5905
costs of State and local administration, services, and training, 5903, 14586
plans under social security act, 8869, 11905
public works, maximum grant rates in qualified areas under Public works and economic development act, 1969
publications, monthly checklist, 3209
qualified areas under 1965 Public works and development act, 616
retirement systems, early retirement provisions, 6610
salary ranges of positions in employment security, etc., 836, 10657
school guidance officials, consultation on vocational guidance for girls, 1563
school systems, 1963–64 statistics, 1981
selected services area statistics, 1963 census of business, 15566
sex discrimination in employment, laws against, 6702, 15430
soil conservation districts, status of organization, etc., 15333
soil surveys for community planning and resource development—
hearing, 17354
law, 17099
report, 17207
sources of milk for Federal order markets, 14511
State and local government special studies, 6938
State and local governments, Federal aids, catalog, supplement, 10345
print additional copies, reports, 10212, 10293
and baled hay (colored poster), 9700
State programs for public school support, 4318
State tax collections, 1965 report, 3933
tax revenue, 6935, 9968, 11478
quarterly summary, 3448
taxation of interstate commerce activities, investigation, report, print additional copies, reports, 10187, 14461
technical services act of 1965—
amend to include Guam, report, 17268
fact sheet, 11527
regional opportunity (address), 4027
special merit programs, 11528
steps for State participation, 11529
technical services, information dissemination (address), 11530
trends in home mortgages insured by FHA, 4377, 10475
unemployment insurance laws, comparison, 4324
revised series, 17629
union regulatory provisions, summary, 4708
vocational rehabilitation agencies—
caseload statistics, 1528
qualified counseling personnel, increasing supply, guidelines for action, 6692
vocational-technical program development by States, summary report, 5884
wage payment and collection laws, summary, 9198
addendum, 12203
women's eligibility for jury service, 12572
workmen's compensation laws, brief summary, 17804
see also Intergovernmental relations.
Station papers, Southeastern Forest Experiment Station, 4483
Stationary engineers, employment outlook, 9278
Stationary firemen, employment outlook, 9278
Stationery, House Members, additional allowance, report, 17251
Statistical abstract of United States:
departmental edition, 15597
document edition, 15781
Statistical association methods for mechanized documentation, symposium proceedings, 7912
Statistical briefs from around world (periodical), 3536
Statistical data compression technique, 16680
Statistical distribution of breaking strength of bundle of classical fibers, 2423
Statistical processes, linear prediction on finite past of multivariate stationary process, 12373
Statistical publications, *see* names of departments, etc., issuing publications.
Statistical Reporting Service:
appropriations, 1967, Agriculture Dept. hearings, 8648, 11787
periodic reports, list, 3765
reports, checklist, 2745
SRS series, 15383, 18128
Statistical tables showing effects of proposed amendments to Public law 874 upon participating school districts, 7232
Statisticians:
agricultural—
examination announcement, amdt., 15627
trainee, examination announcement, 3986
employment outlook, 9251
health, training program for college graduate, 8003
mathematical, and statistician-survey statistician, examination announcement, amdt., 14303
Statistics:
activities of Federal Government, personnel, equipment, costs, report, 7095
application to resource management program (paper), 657
experimental, handbook, errata, 7910
Federal-State-local cooperative arrangements, programs and problems, statements, 14244
Federal statistics, decade of progress (remarks), 15644
foreign trade, hearings, 16183
improved, for economic growth, comments by Govt. agencies, 5595
keypunch controls for string-punching statistical data, 5016
philosophic questions, USSR study, 6238
seasonal factor method of BLS (1966), description, application on electronic computer, 13592
social, law of large numbers, USSR study, 4690
standards of statistical presentation, Army pamphlet, 9894
statistical reporter (periodical), 12690
statistical series releases, SEC, 3538
see also Vital statistics—*also* subjects.
Statler, R. L., radiation damage in silicon solar cells from proton bombardment, 6547
Statue of Liberty, New York Harbor:
colored poster—
English text, 14055
German text, 14056
Spanish text, 14057
Status of Women, Citizens' Advisory Council on, *see* Citizens' Advisory Council on Status of Women.
Status of Women, President's Commission on, *see* President's Commission on Status of Women.
Statutes, *see* Law.
Statutes at large:
citations, how to find, 521
89th Cong., 1st sess., 11944
socialist state industrial enterprise in USSR, 890
see also Law.
Statutes of limitations, *see* Limitations (law).

Stauber, B. R., collection of agricultural statistics in Japan, 18128
Staugaitis, Charles L.:
Echo II metal-polymer laminate, 15140
strain measurements conducted on Echo II, 7817
Stavriotis, Emil:
foreign trade regulations of—
Cyprus, 4007
Kuwait, 7010
Saudi Arabia, 12786, 15649
Steady-state composition of low-density nonequilibrium hydrogen plasma, 17912
Steam:
coal dewatering aid during vacuum filtration, pilot plant study, 4798
condensation in vertical downflow within ¾ inch tube, local heat-transfer coefficients, 6466
distribution systems, maintenance manual, 5255
heat exchanger with steam condensing inside tubes, 17928
Steam electric plants, *see* Electric power plants.
Steam generators, oxygen-hydrogen torch is small-scale generator, 9460
Steam power plants:
auxiliary equipment of steam turbine power stations, USSR study, 4641
equipment, Federal item identification guides for supply cataloging, supplements, 2935
gas installations, operation, USSR studies, 6224
Steam turbines, *see* Turbines.
Steamships, lines in foreign commerce of U.S., approved conference, rate in interconference agreements, 8900
Stearns, Palmer N., programing and scheduling highway improvements, 9637
Stearns, S. Russell, geology and physiography of cold regions, 8249
Steatite, *see* Talc.
Stechschulte, Roger F., basic data on economy of Morocco, 12783
Stedronsky, Victor L., drying and cleaning cotton at gin, 44
Steel:
accelerated cavitation damage of steels in liquid metals, 9539
Bilby steel tower for triangulation, 5529
brittle fracture concepts, studies, 5135
carbon steel heat transfers surfaces corrosion, 4557
commercial forgings, current industrial reports, 12711
etching process mills PH 14–8 Mo alloy steel to precise tolerances, 10984
exhaustion of ductility under notch constraint following uniform prestraining, 14009
fatigue cracked, conditions of failure, 6541
forgings, current industrial reports, 2817
foundries—
census of manufactures, 1963, industry report, 3899
current industrial reports, 2817, 5479
high-manganese, low-carbon, for welded heavy-section ship plate, mechanical properties, 14010
hot-finished mild coupons, use for corrosion inhibitor testing, 2348
industrial defense planning manual, 1770
industry—
employment outlook, 9305
market for wood pallets, 17702
ingot producers, current industrial reports, 5479
iron and steel, mineral industry survey, annual, preliminary, 4757
jacks from Canada, determination of likelihood of injury, 15386
low-alloy, homogeneity characteristics of NBS spectrometric standards, 5007
Steel—Continued
mechanical properties, change due to action of hydrogen, USSR study, 16506
minerals yearbook chapter, 1113
plates under hypervelocity impact, dimple, spall, and perforation characteristics, 12350
products, primary, commodity transportation survey, shipper series, 5452
scrap—
Arkansas, Kansas, Louisiana, Mississippi, Missouri, Oklahoma, and Texas, 9360
consumption problems, 11450
minerals yearbook chapter, 16561
strength and fatigue, USSR studies, 928
structural—
fabrication, industry wage survey, 2298
steel columns, computer program selection, 7769
uranium-bearing, cooling transformations, 2492
weldments, residual stresses, 18091
wire, in aluminum plates, high tensile strength, 12304
see also Stainless steel—*also* names of manufactured articles
Steel castings, *see* Castings.
Steel containers, *see* Containers.
Steel mills:
census of manufactures, 1963, industry statistics, 8334
inventories of shapes, current industrial reports, 2817, 12718
products, current industrial reports, 6922
products, imports, requesting Commerce Dept. to study data, 11800
hearings, 11803
Steel workers, 1 & C, Navy training course, 13909
Steele, E. L., neutron activation analysis procedures for determination of oxygen and potassium, 7744
Steelmark Month, designate May 1966, reports, 8619, 11762
Steen, Charlie R., Tse-Ta'a, excavations at Tse-Ta'a, Canyon de Chelly National Monument, 13875
Steen, Harold K., variation in vegetation following slash fires near Oakridge, Oreg., 2062
Stefferud, Alfred, birds in our lives, 16293
Stein, Philip G., transistorized building blocks for data instrumentation, 13863
Stein, Raisla, and children, relief, 12869
Steinberger, R. L., convergence-zone-measured sound pressures in deep ocean compared with pressures computed from sound speed depth function, 2495
Steinbrugge, Karl V., earthquake damage in western United States, 6984
Steinhilber, August W., State law relating to transportation and textbooks for parochial school students and Constitutional protection of religious freedom, 16241
Stellarators, superconducting magnetic bottle for plasma physics experiments, 15186
Stelluto, George L.:
industry wage surveys—
cotton textiles, 14979
footwear, 13617
hosiery, 1090
women's and misses' coats and suits, 13619
Stem sawflies, *see* Flies.
Stenographers:
employment outlook, 9279
examination announcements, 9999, 17047
amendments, 6971, 10000
examination, sample questions, 17046
opportunities in State Department, 8067
Stenomidae, *see* Microlepidoptera.

Stephens Joseph R., compatibility of tantalum, columbium, and their alloys with hydrogen in presence of temperature gradient, 3842
Stephens County, Okla., thermal recovery and 2 waterflood projects, 16560
Stepka, Francis S.:
pressure waves generated in water filled tanks impacted by high-velocity projectiles, 4912
projectile-impact-induced fracture of tanks, 11076
Steps toward clean water, 7235
Steputis, Walter J., soil survey, Clinton County, Pa., 16835
Stereopanoramic photography, *see* Photography.
Stereoscopes, stereoscopic television pictures, producing with screen of cylindrical lenses, 7762
Sterilizers, dispenser, use for sterilizing rubber gloves, 9473
Sterling, Fla., railroad accident, 12084
Stern, K. H., high temperature properties and decomposition of inorganic salts, sulfates, 17940
Stern, Louis W., studies of organization and competition in grocery manufacturing, 15216
Sternbergh, S. A., flight type oxygen partial pressure sensor, 15046
Sternitzke, Herbert S., Louisiana forests, 2080
Steroids, parotid fluid, responses to exercise, 8219
Steubenville, Ohio, commodity transportation survey, production area series, 8345
Stevens, Gordon H., effect of thermal cycling on tensile and compressive strength of reinforced plastic laminates, 2074
Stevens, Joseph B., relief, 5729, 7027
Stevens, Mary E., statistical association methods for mechanized documentation, symposium proceedings, 7913
Stevens, Paul M.:
effects of lower body negative pressure on cardiovascular system, 12629
effects of 9-alphafluorohydrocortisone on dehydration due to prolonged bed rest, 8206
Stevens, Richard F., jr.:
columbium and tantalum, 16556
rhenium, 15032
Stevens, Robert E., malathion aerial spray controls pine needle-sheath miner, 17689
Stevenson, D. P., analytical techniques for hydrocarbons, 13712
Stevenson, J. W., effects of bleeder entries during atmospheric pressure changes, 10924
Stevenson, P. C., processing of counting data, 14236
Stevick, Earl W.:
Swahili, active introduction—
conversation, 18122
geography, 18123
Stewardesses, employment problems of older workers, hearings, 13029
Stewart, Charles W., John Paul Jones, Apr. 24, 1906 commemoration at Annapolis, 15240
Stewart, Elwood C., optimal control of saturating systems with stochastic inputs, 12356
Stewart, G. L., tritium rainout over United States, 10638
Stewart, William H.:
addresses, etc.—
Nov. 3, 1965, 1418
Nov. 15, 1965, 1432
June 20, 1966, 15271
Stiffness properties of foam-filled fabric structures, 7825
Stiles, Ray E., determination of copper with disodium ethylenedinitrilo tetraacetate (EDTA), 17861
Still-birth:
fetal mortality in U.S., 18082
gestation periods at which fetal deaths are registered State definitions, 18078
Stilling basins, drop structure, Cayuga Inlet, Cayuga Lake, N.Y., hydraulic model investigation, 5888
Stills:
distillation plants, materials of construction, study, 7515
solar sea water, study and field evaluation, progress, 4550, 10675
Stimler, Suzanne S., infrared spectra of plastics and resins, materials developed, 16766
Stimulants, electric current stimulates heart action, USSR, 916
Stimulus:
duration, effect on perception of red-green and yellow-blue mixtures, 13663
frequency, effects with electrical stimulations of oculomotor nucleus, 15492
grouping, function of verbal series for immediate retrieval, 3785
errata, 9861
stationary, luminance threshold, effects of continuously and discontinuously moving stimuli, 6285
stimuli and devices to drive livestock, feasibility tests, 8130
Stipends, *see* Wages.
Stipp, Henry E., mineral industry of United Arab Republic (Egypt), 17849
Stock catalogs, *see* Catalogs—Government supplies.
Stock exchanges, transactions, statistical series releases, SEC, 3538
Stock insurance companies, *see* Insurance companies.
Stock ranges, *see* Range lands.
Stocker, Frederick D., role of local government in economic development of rural areas, 13262
Stockholm, Sweden, U.S. trade center, 14783
Stockman, Norbert O.:
comparison of 1- and 2-dimensional heat transfer calculations in central fin-tube radiators, 16698
two-dimensional heat transfer in radiating stainless-steel-clad copper fins, 4903
Stockpiling, *see* Strategic materials.
Stocks:
bonus plans, tax exemption, procedures and guides for qualification under internal revenue code, 14779
indirect purchases, tax treatment, report, 17309
savings and loan associations, insured, average annual dividend rates paid, 14627
see also Securities.
Stockyards:
packers and stockyards act, what it is, how it operates, 14148
packers and stockyards resumé, 3310
Stoddard, Everett O., II, costs and returns, commercial egg-producing farms, New Jersey, 621
Stoeckeler, J. H., frost penetration and trafficability in two peats as affected by snowpack and surface mosses, 5981
STOL (short-take-off-and landing), *see* Aircraft—Airplanes.
Stoll, James C., magnetic fields due to solid and hollow conical conductors, 2373
Stomach cancer cells in cytological examinations, signs of atypicality, USSR study, 9148
Stomatolog, astrostomatology, denial standards for selection and examination of space crewmen, 12641
Stone, E. W., isotopes in industry, trends in industrial use of radioistopes and ionizing radiation, 150
Stone, J. P., high-temperature properties of sodium, 1357

239-221—67—No. 863——37

Stone, James R., local turbulent heat transfer for water in entrance regions of tubes with various unheated starting lengths, 1264
Stone, Robert N., third look at Minnesota's timber, 10611
Stone:
census of mineral industries, 1963, industry statistics, 14262
cut stone products, census of manufactures, 1963, industry report, 3898
products—
census of manufacturers, 1963, manufacturing plants, location, 11455
commodity transportation survey, shipper series, 217
Stonemasons, *see* Masons.
Stonemetz, R. E. liquid cavitation studies in circular pipe bends, 4925
Stones River National Battlefield general information, 11130
Stoppings for ventilating coal mines, 4793
Storage:
and grain drying studies in southwest Georgia, 67
critical parts are stored and shipped in environmentally controlled reusable containers, 12300
energy storage concept uses tapes, 7770
flood routing without coefficients, 14102
major power reservoirs in Columbia River basin, 3543
open areas in military installations, geometric design, Army technical manual, 8263
safety conditions in storage areas in Agriculture Dept. buildings, GAO review, 8999
space, census of business, 1963, wholesale trade, subject report, 8326
underground gas storages, evaluation of ethylene as tracer, 10929
units, contamination-free, formed by fiberglass container shells, 11011
see also names or classes or articles stored.
Storage batteries:
lead-acid cell, plate materials, anodic oxidation of basic sulfates, 12429
nickel-cadmium, tests, correlation of data, 10948
operates pilot balloon time-signal generator, 17693
Storage bins, *see* Bins.
Storage-stable foamable polyurethane is activated by heat, 10985
Storage tanks, *see* Tanks.
Storck, John:
history of United States National Committee on Vital and Health Statistics, 14000
report of 15th anniversary conference of United States National Committee on Vital and Health Statistics, 12487
Stores:
arrangement and display, bibliography, 2558, 11222
department stores—
credit, monthly report, 2851
inventory price indexes, 7671, 14981
sales—
distribution by department, 7417
distribution by months, 7417
indexes without seasonal adjustments, 7417
monthly reports, 3212–13, 8368
weekly percentage changes, 3700
retail—
apparel and accessory, employee earnings and hours, 13614
building materials, hardware, and farm equipment dealers, 13611
drugstore, small, starting and managing, 9645
employee earnings and hours, June 1965, miscellaneous, drug stores and proprietary stores, 13616
Stores—Continued
retail—continued
food stores, grocery stores, employee earnings and hours, 13612
furniture, home furnishings, and household appliances, employee earnings, 13615
general merchandise, department stores, etc., employee earnings, 12219
sales, 2820, 14279
salesmen, employment outlook, 9272
small—
business location and layout, administrative management course program topic, 6598
financial recordkeeping, 6602
recordkeeping systems, bibliography, 1458, 9643
STORET II, storage and retrieval of data for open water and land areas, 17671
Storey, Theodore G., estimating fuel moisture content of indicator sticks from selected weather variables, 10606
Stories, *see* Fables.
Storks, new Pliocene stork from Nebraska, 11223
Storms:
Christmas, damage on H. J. Andrews Experimental Forest, 2064
coastal warning facilities chart—
Canadian border to Eureka, Calif. and Alaska, 11314
Cape Hatteras, N.C. to Brunswick, Ga., 12559
eastern Florida, 7339
Eastport, Me. to Montauk Point, N.Y., 15418
Eureka to Point Conception, Calif., 11315
Hawaiian Islands, 12560
Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 12561
Montauk Point, N.Y. to Manasquan, N.J., 15419
Morgan City, La., to Apalachicola, Fla., 7340
Point Conception, Calif., to Mexican border, 9764
Puerto Rico and Virgin Islands, 12562
data, monthly, 3544
National Severe Storms Laboratory reports (series), 1536–37, 11317, 12563, 15421
small craft, gale and whole gale warning facilities chart, Great Lakes—
Huron, Erie and Ontario, 15423
Superior and Michigan, 15424
see also Snowstorms—Thunderstorms.
Story of Hoover Dam, 14006
Story of Kurchatov, 16450
Stotelmeyer, R. B., mineral industry of South Dakota, 1144
Stotz, Margaret S., prices of 1966 automobiles models, 10883
Stough, Ada B., brighter vistas, church programs for older adults, 5260
Stout, B. A., prototype hydrohandling system for sorting and sizing apples before storage, 14112
Stout, R. D., mechanical properties of high-manganese, low-carbon steel for welded heavy-section ship plate, 14010
Stovas, Mykhaylo V., biography, USSR, 13479
Stover, W. F., land conveyance, 12865, 14357, 16028
Strack, William C., combined high-low thrust propulsion for close solar probe mission, 2429
Strain gages:
coating permits use of strain gage in water and liquid hydrogen, 11001
differential weighing system, 8955
hole-drilling method of measuring residual stresses, 1372
mechanism for measuring static and dynamic cable loads, 9458

Strain gages—Continued
network distinguishes between thermal and mechanical deformations, 12321
radiation used to temperature compensate semiconductor strain gages, 10995
Strainers:
cloth, for honey conditioning systems, 9835
fits inside flared-tube fittings, 4881
Strains and stresses:
aftershock mechanism and inelastic properties of earth's crust, USSR study, 10802
bellows joint absorbs torsional deflections in duct system, 13767
bellows seal fatigue failures, reducing by fluid damping, 11041
blast effects on space vehicle structures, 4897
buckling—
and postbuckling tests of ring-stiffened circular cylinders loaded by uniform external pressure, 1274
axially compressed cylinders, influence of imperfections and edge restraint, 9406
coefficients for sandwich cylinders of finite length under uniform external lateral pressure, 2059
cylindrical shells—
end closures by internal pressure, 13718
load under axial compression, influence of boundary conditions, 15061
sandwich construction, effect of face-sheet stiffness, 11074
eccentrically stiffened—
cylinders, experimental and theoretical results, 16694
orthotropic cylinders under pure bending, 7869
imperfect cylinders under axial compression, 15051
spherical shells, complete, 15057
Carlson stress meter, supplementary tests, 14576
ceramics as structural materials, 17883
concepts of multiple-impact study of energy absorption, errata, 1179
crack extension and propagation under plane stress, 9641
critical leading-edge thermal stress, pretensioning concept for relief, 12367
cryostat modified to aid rotating beam fatigue test, 7760
cylinders, filament wound, elastic moduli determination, experiments, 1273
derivation of fiber stress values for wood poles, 4464
dispersion-strengthened alloys after failure in stress rupture, 13831
dual formulation of thin shell theory, 15067
effect of thermal cycling on tensile and compressive strength of reinforced plastic laminates, 2074
elastic stresses at mismatched circumferential joint in pressurized cylinder including thickness changes and meridional load coupling, 16677
fastener distributes stress evenly from sandwich-panel hung items, 1233
fatigue—
behavior of Ti–8Al–1Mo–1V sheet, 1190
crack propagation and residual static strength of PH 15–7 Mo (TH 1050) stainless steel, 2433
cracks detected and measured without test interruption, 9483
machine, flexural, for high-temperature operation, 1368
tester, with true axial motion, 7809
Strains and stresses—Continued
filament-wound cylinders loaded in axial compression, determining strength, 13829
hole-drilling strain-gage method of measuring residual stresses, 1372
initiation of failure mechanisms in glass-resin composites, 15039
local plastic stresses in sheet aluminum-alloy specimens with stress-concentration factor of 2 under constant-amplitude loading, 4914
maneuver load fatigue test results, programing techniques and load factors influence, 4913
metal, new brazing alloy eliminates cracking, 2401
metallic materials and elements for flight vehicle structures, change, 615
micromechanics of composite materials, stresses and failure mechanisms induced by inclusions, 15073
mismatch in circumferential joint in cylindrical pressure vessel, comparison of experimental and theoretical stresses, 16676
nickel-beryllium alloy, tensile properties at cryogenic temperatures, effect of cold reduction, etc., 4942
periodic forces acting on hull of ship during operation of shrouded propeller, USSR study, 1012
photoelastic study of internally stressed circular opening in biaxial stress field, 16571
plane strain analysis, extension, 17878
polymer deformation gauge measures thickness change in tensile tests, 7801
presplitting rock in presence of static stress field, 16586
reliability stress and failure rate data for electronic equipment, military standardization handbook, 10394
René 41, fatigue under constant-and random-amplitude loading at room and elevated temperatures, 1256
residual stresses in steel weldments, 18091
rock disk subjected to peripheral thermal shock, analysis, 15024
salt stress corrosion of residually stressed Ti–8Al–1Mo–1V sheet, 7837
semi-atomic model for flaw-induced fracture in non-ductile materials, 9439
sonic fatigue characteristics of randomly excited aluminum viscoelastic panels at ambient temperatures, 9400
spherical shell with non-axisymmetric boundary, analysis, 16595
stainless steel, special 301-type, for improved low-temperature notch toughness of cryoformed pressure vessels, evaluation, 11067
state of stress near curvilinear holes in shells, 9547
steel—
exhaustion of ductility under notch constraint following uniform prestraining, 14009
fatigue cracked, conditions of failure, 6541
strain measurements conducted on full scale Echo II passive communications satellite balloon, 7817
strength and fatigue of steel, USSR studies, 928
stress concentration—
curvilinear holes in physically nonlinear elastic plates, 4999
plate of unlimited dimensions with angular notches, reduction, 4995
stress distribution in orthotropic half-plane, subjected to concentrated load, 10594
stress functions, finding with aid of biharmonic potentials, formulation of problems, 5000

Strains and stresses—Continued
stress-intensity factors—
boundary collocation for single-edge-notch specimens subject to splitting forces, 4982
three-point bend specimens by boundary collocation, 2410
stress-rupture properties of tungsten wire, 12349
stressed state near curvilinear orifices in shells, 9548
tapered wood beams, 4462
tensile behavior of tungsten crystals with rhenium in dilute solid solution, 4937
tensile-strength—
apparatus applies high strain-rate loading with minimum shock, 6389
splices, nonmetallic waterstops, 4342
tension shell shapes at Mach 3.0, aerodynamic characteristics, 16690
tension test method for structural-size lumber, 4465
theoretical elastic mismatch stresses, 4975
thermal—
aluminum 2219 alloy, relief treatments, 17908
buckling characteristics of leading edges, 4972
distortions of thin-walled paraboloidal shells, 15161
panels, flutter at Mach 3, and comparison with theory for panels with edge rotational restraint, 13817
three-dimensional yield criterion of C-Ø material, 8240
transducer loading effects on ultrasonic transit time measurements, evaluating method, 1366
truss-core sandwich cylinder loaded to failure in bending, test, 4916
tungsten, electron bombardment heating, effects on tensile properties, 1371
wet fatigue, Ti-7Al-2Cb-1Ta and Ti-6Al-4V fractures developed in, fractographic analysis, 12423
Stransky, John J., pine seedling survival under simulated drought, 16333
Strassmann, Fritz, Enrico Fermi award, 1966 (remarks), 15545
Strategic Air Command:
manned bombers, reduce number and types—
hearing, 8653
subcommittee report, 8657
Strategic materials:
defense materials system, review, hearing, 453
disposal of acid grade fluorspar from national stockpile—
law, 10067
reports, 8581, 8750
disposal of aluminum from national stockpile—
law, 11569
reports, 10148, 11757
disposal of amosite asbestos from national stockpile and supplemental stockpiles—
law, 10073
reports, 8588, 8756
disposal of bauxite from national stockpile—
law, 8470
reports, 7185, 8578
disposal of bismuth from national and supplemental stockpiles—
law, 10068
reports, 8582, 8751
disposal of celestite from supplemental stockpile—
law, 11570
reports, 10149, 11753
disposal of cordage fiber (sisal) from national stockpile—
law, 11571
reports, 10150, 11755
Strategic materials—Continued
disposal of crocidolite asbestos (harsh) from supplemental stockpile—
law, 11572
reports, 10151, 11756
disposal of graphite, quartz crystals, and lump steatite talc from national stockpile or supplemental stockpile or both, law, 412
disposal of metallurgical grade chromite from national and supplemental stockpile—
law, 10066
reports, 8580, 8749
disposal of metallurgical grade manganese ore from national and supplemental stockpiles—
law, 15722
reports, 10152, 16089
disposal of molybdenum from national stockpile—
law, 10064
reports, 8583, 11736
disposal of muscovite mica from national and supplemental stockpiles—
law, 10070
reports, 8585, 8753
disposal of nickel from national stockpile, law, 425
disposal of opium from national stockpile—
law, 11573
reports, 10153, 11754
disposal of phlogopite mica from national and supplemental stockpiles—
law, 10069
reports, 8584, 8752
disposal of platinum from national stockpile—
law, 8466
reports, 7186, 8579
disposal of rhodium from national stockpile—
law, 10071
reports, 8586, 8754
disposal of ruthenium from supplemental stockpile—
law, 10074
reports, 8589, 8757
disposal of thorium from supplemental stockpile—
law, 10072
reports, 8587, 8755
disposal of vanadium from national stockpile—
law, 10075
reports, 8590, 8758
disposal of various stockpile commodities, hearings, 7120, 10325, 11643
exchange of fluorspar and ferromanganese from national and supplemental stockpiles—
law, 17097
report, 17466
Federal stockpile inventories, report, 2640
national stockpile disposal bills, hearing, 570
release of zinc from either national or supplemental stockpile, or both, law, 424
stockpile reports, 1983–84, 10433, 17365
Stratification:
flow, Taylor instability, 16596
germination of eastern white pine seed, 798
primitive area, Wyo., mineral resources, 12016
Stratigraphy:
changes in stratigraphic nomenclature by Geological Survey, 4514, 17716
contributions to stratigraphy (series), 2090, 4514, 9014–15, 10634, 12014, 13402, 17716
Cook Inlet region, Alaska, 12020
Death Valley, Calif., 7484
Dinkey Creek roof pendant, in central Sierra Nevada, Calif., 10645

Stratigraphy—Continued
Juana Lopez member, Mancos shale, in San Juan Basin, N. Mex., 9014
Madison group near Livingston, Mont., karst and solution-breccia features, discussion, 4522
New London area, Conn., stratigraphic names, 12014
Pliocene marine strata, Salinas Valley, 820
rocks adjacent to Cretaceous-Tertiary boundary, western San Juan Basin, N. Mex., 12024
structure, geography, physiography, etc. of Prescott and Paulden quadrangles, Ariz., 818
tertiary biostratigraphy of Cook Inlet region, Alaska (series), 12020
Yakima basalt and Ellensburg formation of south-central Washington, 13402
Stratosphere:
processes based on rocket sounding data, 2444
radioactive aerosols dispersion, USSR study, 7599
seasonal reconstruction of wind field, 2443
temperature field and circulation changes, influence of tropospheric processes, 4994
upper temperature, pressure, density, and wind measurements, 13848
Straub, H. W., instrumented telemetering deep sea buoys, 315
Strawberries:
appearance and decay after treatment with ozone, 16928
California, air transport, factors affecting market quality, 1965 summer shipment, 12609
diseases, 15443
Streak camera method for measuring dynamic equation of state properties of rock 9386
Streamlines in continuous flow, 2448
Streamlines in steady flow, 12374
Streams, *see* Rivers.
Streets, work injuries and rates in street and highway department industry, 2295
see also Roads and highways.
Strength of materials:
aluminum/steel wire composite plates, 12304
mechanical coke and iron ore pellets, 13696
see also names of materials and articles.
Strengthening free enterprise, 1965 annual report, Small Business Administration, 15325
Streptococcal infections, selected references, 18070
Stress (psychological), *see* Tension.
Stresses (mechanical), *see* Strains and stresses.
Stretchers, buoyant Stokes litter assembly for sea rescue operations, 4856
Strickler, Gerald S., flora of Starkey Experimental Forest and Range, 10554
Strickler, Paul E., uses of agricultural machinery in 1964, custom and exchange work, machine rental, 11368
Strikes and lockouts:
airline dispute, providing for settlement, hearings, 13225, 14411
airline strike impact on defense posture, hearing, 14411
airline strike, July–Aug. 1966, magnitude and significance for economic regulatory purposes (remarks), 15617
work stoppages—
analysis, 2297
monthly, 3713
Striner, Herbert E., training in perspective of technological change, 4699
Stringocephalus in Devonian of Indiana, 11224
Strip-mined lands, *see* Reclamation of land.
Strip mines, *see* Coal mines and mining.
Strips (metal, etc.):
coiled sheet metal strip opens into tubular configuration, 4846
Stroboscope, multicolor, pinpoints resonances in vibrating components, 11017
Stroboscopic method, *see* Equations.
Strohecker, Daniel E., electromagnetic hammer, 2374
Strokes:
cerebrovascular disorders, summary of progress, 5034, 18073
community health planning grants, 14757
Strong, Ann L., open space for urban America, 5204
Strong, J. P., III, comparison of phase-coherent and non-phase-coherent communications, 7814
Strong souls and ready valor (remarks), 10901
Strontium carbonates, anhydrous, heats of formation and free energies, 13698
Strontium isotopes:
Sr-90 in—
Canadian wheat from 1963 crop year, 2541
wheats and their milled products, effect of variety on accumulation, 2525
Stroud, Raymond B., mineral industry of Arkansas, 1115
Stroudsburg, Pa.:
flood control, engineer report—
departmental edition, 671
document edition, 537
Struble, G. R., California 5-spined ips, 14696
Structural concepts for hydrogen-fueled hypersonic airplanes, 6414
Structural designs, *see* Architecture—Designs (industrial).
Structural engineering, *see* Building.
Structural materials, *see* Materials.
Structural steel, *see* Steel.
Structural systems and program decisions, Apollo program, 12284, 15087–88
Structural unemployment, *see* Unemployed.
Structure and conduct of commercial cattle feeding industry, 17947
Structures, *see* Buildings—Strains and stresses.
Strumella canker of oaks, 16322
Strunk, Hazel L. S., relief, 11709, 17082
Stubbs, Sandy M., landing characteristics of Apollo spacecraft, 4901
Student loan program, *see* Students.
Student reference, Department of Labor safety training programs, SR LS series, 9201, 10850
Student reference sheet SR series, 2052–53
Students:
college—
engineering opportunities in Public Roads Bureau highway engineering training program, 5129
Federal career directory, 8400
residence and migration, fall, 1963, State and regional data, 8851
consumer education, FDA materials, 4431
employment under Fair labor standards act, 14073
full time, ages 18 to 21, amend railroad retirement act to provide survivor benefits—
hearings, 10361, 11666
reports, 15947, 17532
gleaming promise of guaranteed loans (address), 8841
high school—
around the corner, preparation to meet tomorrow's world problems, 14030
national ability counts contest, 1967, announcement, 7650
higher education act of 1965—
guaranteed loans—
promises and challenge, 7311
State and private nonprofit agency programs, 17622
law, 430
outlined by title, 645
questions and answers, 7312
section by section analysis, 646

Students—Continued
is it smart for you to quit school? 9893
loan programs for medical, osteopathic, dental, etc., and nursing students—
hearings, 10249, 17591
reports, 10225, 15841, 17535
loans, increase credit life, health, or accident amounts allowable in D.C.—
law, 17108
report, 15852
loans, national defense education act, college-work-study program and list of participating institutions, 7316
National Institute of Mental Health student research stipend program in social work, survey, 15290
nursing careers, Walter Reed Army Institute of Nursing, educational opportunities, 3844
pilot guide, general information, 7445
role in science societies in USSR, 16394
Russian, in South America, 9140
Russian language, in classes 5–8, use of folklore in anti-religious education, 7581
scope of pupil personnel services, 16240
services administration in higher education, 10431
social security benefits up to age 22, explanation, 2570
student manual, SM series, 8386, 11493, 12745, 15625, 17030–31
students as individuals, new look in guidance (address), 7323
students as investment (address), 7324
talented, provisions for, bibliography, 5883
thinking about your first job? remember Uncle Sam, 17044
training and development, psychological aspects, USSR, 17755
undergraduate curriculum patterns, baccalaureate programs, 4320
USSR, teaching methods used to form firm atheistic convictions, 12114
visiting, information on U.S.A., 5202
vocational, insured and direct loans guaranteed, promise and challenge, 7311
Studies (North Vietnam periodical):
translation, 932, 2176, 4616, 6230, 9097, 9156, 10748, 12090, 12101, 12148, 12194, 14884
Study, *see* Curriculum.
Stumpage, *see* Timber.
Sturm, Ralph H., soil survey report, Fountain County, Ind., 18105
Stuve, John M.:
heat of formation of—
neodymium trichloride, 1167
scandium trichloride, 1168
Styrene, plastic drain, waste, and vent pipe and fittings, standard of trade, 1290
Styrofoam, vacuum plate clamps for machining, 12323
Suarez, Pablo A., relief, 17427
Suarez Tejon, Virginia, *see* Tejon, Virginia S.
Subalpine fir, *see* Fir.
Subarctic regions:
construction—
calculation of depths of freeze and thaw in soils, Army technical manual, 5374
general provision, 9908
emergency construction, technical manual—
general provisions, 14227
site selection and development, 14228
survival situations, ameliorative measures in fasting, 5313
Subcontractors, *see* Government contracts.
Subcontracts, *see* Government contracts.
Subject filing, managing current files, records management, handbook, 13854
Subject headings:
agricultural/biological subject category list, 7905
Subject headings—Continued
COSATI subject category list, DoD-modified, 1963
descriptors thesaurus, 14524
Federal Aviation Agency descriptors thesaurus, 4363
Library of Congress, 3546, 17825
medical, 3050
comulated, 12394
Sublimation, modular porous plate sublimator requires only water supply for coolant, 16632
Submarine boats:
advanced submarine sonar technology, Navy trainee's guide, 1340
atmospheric problems, 6283
environmental physiology, 6282
fracture toughness characteristics of titanium alloys, 1362
loan, extension, agreement with Canada, 15354
non-acoustic methods of detection, 2254
nuclear powered, general information, 5422
Thresher, civilians who lost their lives, furnish memorial headstones or markers, report, 12970
topside coatings for application in cold damp weather, 1384
Submarine cables, undersea communications system, foreign source components and barter bids, review of policies, etc., Defense Dept., Agriculture Dept., Treasury Dept., GAO report, 4506
Submarine crews, advanced sonar technology, trainee's guide, 2486
Submarine Medical Center, *see* Naval Submarine Medical Center.
Submarine research, *see* Oceanography.
Submariners:
aerotitis media in submarine recruits, 14992
personnel in nuclear-powered submarines, ionizing radiation effects on eyes, 14991
Submicron hole in thin films increase sampling range of mass spectrometers, 15110
Submicron metal powders produced by ball milling with grinding aids, 11015
Subminiaturized gas chromatograph gives fast efficient analysis, 10993
Subsidies, *see* names of commodities, industries, etc.
Subsistence, Federal item identification guides for supply cataloging, supplements, 2937
Subsistence allowances, *see* Pay, allowances, etc.
Subsistence stores:
inspection and storage, Army technical manual, 1656
supplies authorized for sale in commissary stores, Army regulation, 115
Subsonic airplanes, *see* Airplanes.
Substituted silane-diol polymers have improved thermal stability, 12301
Substrates:
body-centered-cubic substrates surface structure, dependence of adsorption properties, 2426
porous glass makes effective substrate for ozone-sensing reagent, 2383
single-crystal semiconductor films grown on foreign substrates, 11019
Subsurface drainage facilities, emergency construction, 16963
Subsurface effects measurements, Project Pre-Schooner, 14237
Subtraction, binary, simple circuit performs, 1230
Subtropics, parotoid fluid flow rate, seasonal variations, 6813
Suburbanites, publications, list, 843
Suburbs, beautification efforts of Federal Government, report, 2517
Subversive activities, *see* Un-American activities.

Subversive Activities Control Board:
annual report, 5181
appropriations, 1967—
hearings, 15955
reports, 15938, 17539
reports, 6666–67, 11285, 16874
Sudan:
agricultural commodities, agreement, 11276
background notes, 12519
foreign trade regulations, 17057
mineral industry, minerals yearbook chapter, 6304
Sudbury River and Valley:
engineer report—
departmental edition, 672
document edition, 538
Sudebnaya khimiya, preface and table of contents, 7597
Suez Canal:
vessel tonnage measurement, customs regulations, 14513
revised pages, 13242
Suffolk County, N.Y., postulated liquid-waste releases, Brookhaven National Laboratory, 13394
Sugar:
act of 1948, amend and extend—
comparison between House bill and Senate amdt., 1939
data relating to amdts., 1938
law, 432
report, 551
act of 1948, text, as amended, 6739
and confectionery products, census of manufactures, industry report, 3884
determinations of wage rates, prices, acreage credit, etc., 3547
foreign agriculture circular, 2987
international agreement of 1958, protocol for prolongation, 5156
kinetic behavior in solution, progress report of Organic Chemistry Section, July 1965-June 1966, 17944
requirements and quotas, 3548
sugar reports, monthly, 3549
sugars in solution, progress report of Organic Chemistry Section, July 1964-June 1965, 1299
U.S. program, including sugar act 1962 amendments, 6733
ultrasonic method of analyzing crystal-containing mass, USSR study, 10795
Sugar beets:
insects, how to control them, 9817
research on utilization, 1949–65, Western Utilization Research and Development Division, bibliography, 8131
Sugar maple, *see* Maple.
Sugarcane:
mosaic virus, strains, 8170
parasitic plant attacks sugarcane, 58
Sugars, *see* Sugar.
Sugg, Matilda R., forecasting of manpower requirements, 2294
Suits, women's and misses', industry wage survey, 13619
Sulfates:
expansion, interrelations between cement and concrete properties, 13855
high temperature properties and decomposition, 17940
see also Lead sulfate—Manganese sulfate—*also* sulfates by name.
Sulfides, alkyl cycloalkyl and dicycloalkyl, synthesis, 12252
see also sulfides by name, e.g. Sulfur sulfide.
Sulfite pulp, *see* Wood pulp.
Sulfur:
compounds in petroleum, identification, 12257
forms in coals, 15010
native and recovered, mineral industry survey, monthly, 3550
organic compounds, mass spectra, 4788
Sulfur—Continued
production, etc., 1965, preliminary, 4803
reduction in Appalachian coals by stage crushing, survey, 6288
titrimetric microdetermination in organic phosphorus and arsenic compounds using nitchromazo, USSR study, 13539
Sulfur sulfate, determination in rocks and minerals, 12012
Sulfur sulfide, determination in rocks and minerals, 12012
Sulfuric acid, extraction of alumina by leaching melted and quenched anorthosite, 9369
Sulky project, *see* Project Sulky (plowshare program).
Sullivan, Daniel F., conceptual problems in developing index of health, 9631
Sullivan, J. O., absorption cross sections for wavelengths less than 3000Å, 4826
Sullivans Island:
hurricane survey, engineer report—
departmental edition, 8859
document edition, 8501
Sulphates, *see* Manganese sulfate.
Sumatra, sailing directions, changes, 7957
Sumby, William H.:
effect of context on recall and recognition of long verbal series, 16949
immediate retrieval of verbal series as function of stimulus grouping, 3785
incremental or one-trial learning of verbal series, 83
Summer employment opportunities in Federal Government, 17048
Summer flounders, *see* Flounders.
Summer jobs in '66, office and science assistant positions, 311
Summer seminars, overseas projects in education, 16243
Summer vacation jobs in Federal agencies, 1761
Summer volunteer service in war on poverty, 10406
Summers, Robert L., effects of rubidium vapor on ionization gages, 15179
Sumner, Irving E., stability boundaries for planar and nonplanar sloshing in spherical tanks, 4954
Sun:
early history, 14017
ephermeris, 1098, 17819
F-corona analysis according to Mie theory, 9437
heliotechnology (USSR periodical) translations, 2201, 2244, 6161, 9113, 9173, 10725, 10743
ionospheric parameters derived from Echo II radar returns during solar minimum conditions, 12442
lunar effects on motion of close earth satellites, analysis, 13845
observations made with 6-inch transit circle, 6518
solar—
activity, 1003
cycle effects on inner zone protons, 6413
probe mission, combined high-low thrust propulsion, 2429
space, propagation of radio waves, USSR study, 13461
see also headings beginning Solar.
Sundahl, William E., crown and tree weights, of madrone, black oak, and tanoak, 17688
Sunday Telegraph (periodical):
interview with Valeriy Tarsis, USSR comments, 10613
Sung, Jai Yul, *see* Barker, David G.
Sunset Crater National Monument, general information, 11131
Super Market Institute, figure exchange reports, 16730
Superalloys, *see* Alloys.

Superconductivity:
enhancement of current-carrying capacity in niobium through hydrogen treatment, 16693
materials and some of their properties, 17945
metals, USSR studies, 7588
techniques for broadband traveling-wave masers, 7723
Superconductors:
current distribution in—
array of superconducting thin films, 6456
thin film strip transmission line, 7863
electrodynamics of superconducting parallel path circuit, 16770
generator with superconducting magnetic field for use in 1-megawatt space power systems, 7864
magnetic torque of ideal superconducting toroids, 16771
niobium thin films are superconductive in strong magnetic fields at low temperatures, 7778
Soviet research, 13487
superconducting magnetic bottle for plasma physics experiments, 15186
Supercritical pressure, *see* Pressure.
Supergrade positions, *see* Civil service.
Superheaters:
BONUS boiling nuclear superheater power station—
project completion report, 15537
startup summary report, 5383
abstract, 8278
Superior, Lake:
birds of Isle Royale, 14676
currents at Little Lake Harbor, 9339
fish distribution in U.S. streams tributary to, 780
small craft, gale and whole gale warning facilities chart, 15424
western region, tectonics of Keweenawan Basin, 9020
Supernovae, *see* Stars.
Superphosphates, *see* Phosphates.
Supersonic aerodynamics, *see* Aerodynamics.
Supersonic aircraft, *see* Aircraft.
Supersonic airplanes, *see* Airplanes.
Supersonic flow, *see* Flow.
Supersonic flutter of simply supported isotropic sandwich panels, 7818
Supervision, *see* Supervisors.
Supervisors:
challenge to supervisors, making young workers safe workers, 16519
development program, basic course—
grievances, 6828
position and pay management, 11394
within-grade increases and employee productivity, 6829
employee training, responsibility for work improvement, 5147
police traffic supervision, highway safety action program, brief outline, 11205
Post Office Department supervision over city delivery carriers, GAO report, 6017
school library supervision in large cities, 7319
supervising young workers, common sense, pointers on getting them off to a good start, 18135
training + visits, program, guide in employment of the handicapped, 10851
work supervisor's handbook, Neighborhood Youth Corps, 1083
Supplementary Medical Insurance Trust Fund, *see* Board of Trustees of Federal Supplementary Medical Insurance Trust Fund.
Supplies, *see* Agricultural supplies—Dental supplies—Government supplies—Medical supplies—Military supplies—Subsistence stores—Surgical supplies.
Supply and demand:
demand and price situation, 2847
forest products, 57
Ghana, farm product projections to 1975 with implications for U.S. exports, 7294
Jamaica, Trinidad and Tobago, Leeward Islands, Windward Islands, Barbados, agricultural products projected levels to 1975, summary and evaluation, 11865
world newsprint, outlook through 1968, report, 17256
Supply and Maintenance Command:
project listing, 14221
SMC pamphlets, 3830, 8261, 12659, 14221
Supply catalog, *see* Federal supply catalog—Military supplies.
Supply cataloging, *see* Federal supply catalog.
Supply Corps, Navy, *see* Navy Supply Corps.
Supply facilities, Navy design manual, changes, 1569
Supply management:
DSA civilian career program, 8806
interservice action needed when management policies and practices differ for similar supply items, Defense Dept., GAO report, 14726
supply operations, guide for developing engineered standards, SMC pamphlet, 12659
Supply management at Eastern Test Range, consolidation under Department of Air Force:
hearings, 4123
report, 5685
Support for science, Antarctica, 2503
Supports:
flexible, floating ring dampers and hypercritical shafts, behavior and dynamics, 136
lateral stability of deep beams with shear-beam support, 5991
Suppressors (electric):
plate eliminates undesired arcing during electron beam welding, 13792
Suppressors (noise), *see* Noise suppressors.
Supreme Court:
cases adjudged—
Court of Claims cases, 599–600, 1958–59, 4239–40, 5840, 7249
official reports, 3290
United States reports, 1509, 2599, 8095
journal, 3566
members, 5183
rules of civil procedure for district courts, adopted, 7061
rules of criminal procedure for District Courts, 5615
uniform civil appellate rules for courts of appeals, power to prescribe, reports, 14455, 17247
Supreme Court on Drugs, appoint, proposal, report, 8759
Sureties, *see* Guaranties and sureties.
Surface active agents:
chemical displacement of organic liquids from solid surfaces, 12433
seawater samples from Bay of Panama, adsorption of material at surface of water, 6544
surfactant for dye-penetrant inspection is insensitive to liquid oxygen, 9461
Surface chemical methods of displacing water and/or oils and salvaging flooded equipment, etc., 6548
Surface chemistry of fluorochemicals, 5073
Surface Effect Ships for Ocean Commerce Advisory Committee, Commerce Dept., ocean commerce, surface effect ships, report on study of technological problems, 5561
Surface finishing techniques, *see* Surfacing materials.
Surface-fitting program for areally-distributed data from earth sciences and remote sensing, 1182
Surface microgeometry, 1990

Surface motion measurements, *see* Surfaces.
Surface surveillance photography, 7976
Surface tension, *see* Surface active agents.
Surface water, *see* Water.
Surfaces:
  aluminized fiber glass insulation conforms to curved surfaces, 4861
  characteristics of wood as they affect durability of finishes, 10595
  electron beam seals outer surfaces of porous bodies, 6363
  flat, perpendicular, highly underexpanded exhaust plumes impinging upon surface, investigation, 6443
  irregular horizontal, alignment tool facilitates pin placement on, 16633
  lunar surface, panoramic views, 16710
  metallic and coated, thermal radiation absorptance and vacuum outgassing, 4968
  roughness—
    drag at supersonic speeds, 16669
    effects on boundary-layer transition for blunt-leading-edge plates, 15149
    fabrication-type, pressure drags on ogive cylinder, 15151
    improves stability of air-sounding balloons, 2377
    pressure and heat transfer tests, 15049
  seal surfaces protected during assembly, 12308
  solid
    displacing of organic liquids from, solution systems, 16768
    surface-chemical displacement of bulk water, 16756
  surface motion measurements, Nevada test site, Project Dugout, 16972
Surfacing materials:
  Army pioneer-type runways, portable surfacing, laboratory and engineering field tests, 4340
  rock-blast-resistant, rocket engine blast tests, 10440
  see also Coating materials.
Surfactants, *see* Surface active agents.
Surgeon General, Army, *see* Army Medical Service.
Surgeon General, Public Health Service, *see* Public Health Service.
Surgeons:
  Navy flight surgeon, who, what, why, where, when, 4751
  USSR—
    all-Union regular convention, proceedings, 6150
    biographies, 10738
    congress, 6185
Surgery:
  experimental, problems, USSR study, 14825
  heart, new methods, USSR studies, 919
  proportion of surgical bill paid by insurance, 15306
  reanimation, USSR study, 4657
  veterinary operations, standard nomenclature, 11114
Surgical instruments and apparatus, census of manufactures, 1963, industry report, 11453
Surgical supplies:
  administrative aspects of hospital central surgical supply services, 15282
  hospital central services, 1424
Surinam, mineral industry, minerals yearbook chapter, 6306
Surplus agricultural products, *see* Agricultural products.
Surplus Government property, *see* Surplus property.
Surplus military property, *see* Surplus property.
Surplus property:
  defense disposal manual, changes, 611, 5848
  disposal abroad, hearings, 14483
  disposal of surplus real property for public use, for private use, 9005
  disposal to State agencies for education, etc., hearing, 14482
  donable, program, hearings, 4221
  donable program, evaluation—
    hearings, 15972
    report, 17346
  State agencies, directors, directory, 12036
  use of excess property by U.S. foreign aid program in Latin America, report, 8628
  utilization for education, public health, and civil defense—
    hearings, 15972
    reports, 17346
  see also Personal property.
Surplus Property Utilization Division, HEW, regional representatives, directory, 12036
Surrey, Stanley S.:
  remarks—
    Dec. 2, 1965, 1524
    Mar. 23, 1966, 8099
    June 9, 1966, 11294
    Aug. 6, 1966, 15392
    Oct. 5, 1966, 16876
Surveillance (military):
  surface surveillance photography, 7976
Survey of current business (periodical), 3567
Surveying:
  accuracy of geodetic measurements in geological survey operations, pro and con, USSR study, 14907
  aid, examination announcement, 14301
  control surveys, 10646
  gravimetric, USSR study, 10801
  publications, price list, 13953
  seasonal employment, information, 6274
  topographic—
    control surveys, leveling, standards and planning, instructions for field operations and office computations in 2d and 3d order leveling, 10646
    interpretation, USSR, 10836
  see also Triangulation.
Surveying instruments, mine-surveying, Soviet facilities and equipment developed at Soviet institute, 16485
  see also Levels.
Surveyor Project, *see* Project Surveyor (unmanned lunar exploration).
Surveyors, employment outlook, 9281
Surveyors levels, *see* Levels.
Surveys, *see* Community surveys—*also* subjects of surveys.
Survival:
  company, 1st steps, industrial civil defense workbooks, 17025
  hardwoods planted in saturated soils, 16335
  logistics, NREC programs for gaming, 1982
  national census, survival rates by color and sex, 1950–60,' errata, 1736
  personal and family, civil defense adult education course student manual, 12745
  subarctic situations, ameliorative measures in fasting, 5313
Survivors, *see* Civil service pensions.
Survivors benefits, social security, rights and responsibilities of recipients, 2568
Survivors insurance, social security ruling, 3519, 6613
  see also Old age, survivors, and disability insurance.
Suspended animation, space flights, problems, USSR study, 4686
Susquehanna River and Valley, basin project for water supply and water quality management, 16291
Sutherland, G. Bonar, precipitin response to human serum by rabbit population, comparison of stresses, etc., 8218

Sutter National Wildlife Refuge, general information, 764
Suttes, John T., effect of nose-mounted control-system jets in roll-control positions on aerodynamics of space vehicle, 6448
Svehla, Roger A., thermodynamic and transport properties for $N_2O_4 = 2NO_2 = 2NO + O_2$ system, 7851
Svitlychnyy, I., Ukrainian writer, arrest, interpretation by Ukrainian emigre organization Prologue, 12110
SW-series, 7999
Swados, Harvey, on the line, 6252
Swaging tools, low power heating element provides thermal control during swaging operations, 11003
Swahili:
  Foreign Service Institute, basic course, active introduction—
    general conversation, 18122
    geography, 18123
Swallowing, *see* Deglutition.
Swamplands:
  acquisition for migratory waterfowl, extend act, hearings, 13053
  coastal wetlands of Hempstead-South Oyster Bay, L.I., preserve for fishing, etc., hearings, 14432
Swan, A. H., friction factor and heat transfer correlation for irradiated organic coolants, 9020
Swan Lake National Wildlife Refuge, birds, list, 14667
Swanquarter National Wildlife Refuge, birds, list, 16303
Swanson, Bruce L., statistics of farmer cooperatives, 14594
Swanson, Howard E., standard X-ray diffraction powder patterns, 15206
Swartout, John A., remarks, Nov. 15, 1965, 167
Swaziland, *see* South Africa.
Swearingen, John J.:
  determination of centers of gravity of children, sitting and standing, 8307
  head and face injury potential of airline seats, etc., 14243
Sweden:
  automotive service and repair equipment, foreign market survey, 175
  background notes, 11245
  business machines, market data, 10023
  community mental health services, 5025
  economy, basic data, 12772
  educational data, 656
  former Communist Party chairman publishes book, 14903
  Indonesia's political history and Oct. 1, coup, Swedish leftist view, 14902
  labor conditions, 13646
  manpower policy and programs, 16515
  market for corrosion protection methods and materials, 176
  mineral industry, minerals yearbook chapter, 9365
  research in Soviet legal terminology, 14901
Sweep generators, logarithmic sweep for use in display of long pulses, 12434
Sweet corn, *see* Corn.
Sweet gum, new variety, general information, 16588
Sweeteners, market, trends and prospects, 4283
Sweetgum, *see* Sweet gum.
Sweetpotatoes:
  acreage—
    marketing guides, 5827
    yield, etc., by States and seasonal groups, 14037
Sweetwater County, Wyo., improvements on lands, reimburse Wyoming, report, 17515
Swift, L. M., feasibility of cavity pressure and temperature measurements for decoupled nuclear explosion, 3852
Swift, Lloyd B., Turkish, basic course, 12539
Swigert, Paul, computer generation of quadrature coefficients utilizing symbolic manipulation language FORMAC, 13812
Swindles, *see* Fraud.
Swine:
  farrow-to-finish unit, 16932
  feeder pigs, official U.S. Standards for grades, 7246
  feeding floor for 200 pigs, 11361
  garbage-feeding, national status on control, 3240
  hog slaughtering—
    and dressing systems, 15448
    labor cost, 16723
  pig crop reports, 1508, 5178, 8090, 15382, 16872
  portable hog feeder from red oak lumber, 10591
  production—
    methods, problems, etc., 8145
    use chemicals safely, 9831
  raising a few hogs, 9821, 16927
  trichinosis, how it affects your hogs, etc., 6750
  validated brucellosis-free herds, list, 11337
Swinzow, George K.:
  ice cover of Arctic proglacial lake, 9887
  permacrete, 3818
Switchboard, *see* Electric switchgear.
Switchboard operators, *see* Telephone operators.
Switchboards, apparatus, current industrial reports, 5484
Switches, *see* Electric switchgear—Pressure switches.
Switzerland:
  economy, basic data, 12777
  European Nuclear Research Center, activities, 4602
  labor conditions, 12223
  mineral industry, minerals yearbook chapter, 6307
  patents, abstracts, translations, 3586
  protocol for accession to GATT, 18124
Swiveling lathe jaw concept for holding irregular pieces, 13756
Sycamore, viable seed produced after 6 years, 16330
Sycamore Canyon, primitive area, mineral resources, 14747
Sykes, James E., Bureau of Commercial Fisheries symposium on red tide, 4425
Sylvester, Rita D., list of Bureau of Mines publications and articles, 6292
Sylvia, John R., relief, 10111, 14345, 16041
Symbolism in art, Bartolomé Bermejo's Episcopal saint, study in Medieval Spanish symbolism, 9651
Symbolism in medicine, books of Renaissance and Baroque, 12395
Symbols:
  Federal item identification guides for supply cataloging, 4253
  nondestructive testing, military standard, cancellation notice, 7263
  used in national union catalog, Library of Congress, 9348
Symposiums:
  AEC, accelerator radiation dosimetry and experience, proceedings, 12674
  AEC series, 12672
  Air Force/industry data management symposium, Sept. 28–30, 1965, proceedings, 3791
  Bureau of Commercial Fisheries on red tide, 4425
  child with central nervous system deficit, report, 5504
  community mental health, individual adjustment or social planning, 16791
  density, key to wood quality, proceedings, 7458

Symposiums—Continued
employment act of 1946, 20th anniversary, hearing, 8485
print additional copies, reports, 10213, 10292
supplement, 14876
environmental lead contamination, 8002
ESSA, earthquake prediction, 14577
extremum problems, 13528
factors involved in host-agent relationships, 9780
genes and chromosomes, structure and function, 5030
genetics, USSR, 12115
geomorphology and economic geography, geographical society of China, 16455
hypothermia in treatment of terminal states, 4662
international water quality, North American problems (remarks), 14753
ion exchangers, synthesis, analysis, and utilization, Rumanian studies, 9166
medical aspects of stress in military climate, 141
NASA, technology status and trends, 6358
naval hydrodynamics, ship motions, and drag reduction, 16753
neutron dynamics and control, 12672
nutritional requirements for survival in cold and at altitude, arctic medicine and biology, proceedings, 14185
oncology, experimental, USSR resumé, 10768
passive gravity-gradient stabilization, 16620
pest control by chemical, biological, genetic, and physical means, 12580
pulsed high intensity fission neutron sources, 5385
radioactive, pharmaceuticals, proceedings, 12675
research—
agriculture, 15480
methods and instrumentation, developments, 16810
scintillation and semiconductor counter, Mar. 2–4, 1966, abstracts, 5020
short-term frequency stability, proceedings of IEEE–NASA symposium on definition and measurement, etc., Nov. 23–24, 1964, 1196
slow, latent, and temperate virus infections, 13978
space sciences, NASA contributions, 13801
statistical association methods for mechanized documentation, 7913
timers for ordnance, proceedings, 17979
toxicology and hygiene of toxic chemicals used in agriculture, USSR study, 967
vestibular organs, role in exploration of space, 6353
viruses of laboratory rodents, 6486
wave diffraction, 2209
Symptoms, *see* Diagnosis.
Synchronization, phase-lock loop swept-frequency synchronization, 17897
Synchronizers, PCM frame strategies, computer program to evaluate, 7858
Synchronous satellites, *see* Satellites.
Syncom, *see* Satellites.
Synodontidae, *see* Lizardfishes.
Synoptic meteorology, *see* Meteorology.
Synthesis:
alkyl cycloalkyl and dicycloalkyl sulfides, 12252
and application of perceptrons, USSR, 14916
automatic, program, user's manual, 12265
high molecular compounds by radiation polymerization method, USSR study, 9069
in-flight synthesis, data requirements, 15055
nonlinear control laws, USSR study, 10796
radiation, halogen compounds, final report, 15529
Synthesis—Continued
research materials on organic chemistry, progress report of Organic Chemistry Section, July 1965–June 1966, 17944
Synthetic organic chemicals, *see* Organic compounds.
Synthetic plastics components, 10377
Synthetic rubber, *see* Rubber.
Synthetic woven goods, *see* Textiles.
Syracuse, N.Y., commodity transportation survey, production area series, 9953
Syria:
Arab Republic, mineral industry, minerals yearbook chapters, 4778, 17848
Army area handbook, 5366
cotton industry, current situation and outlook, 13353
current political situation, Soviet view, 12119
economic outlook, translations, 12116
Syrian Arab Republic, *see* Syria.
Systems:
inertial experiment pointing and attitude control, 15202
system program management procedures, AFSC manual, 12624
system proportions fluid-flow in response to demand signals, 7767
systems approach to fire protection, 13389
see also names or types of systems, e.g. Control systems.
Systems engineers, fill your need through Professional Placement Network, 11887
Systems reliability, *see* Reliability (mechanical).
Systems Research and Development Service, report, 15384
Szuch, John R., investigation of starting characteristics of M–1 rocket engine using analog computer, 2422

T

T-handle wrench has torque-limiting action, 6391
T.I.M.E. Freight, Inc., accident, 7541
T.V.A., *see* Tennessee Valley Authority.
TAB, *see* Technical abstract bulletin.
Tables (compilation), *see* Technical, scientific, and economic subjects.
Tables (mathematics), *see* Mathematics—Trigonometry.
Tables of organization, *see* Army.
Tabulbah, Tunisia, ground water, occurrence, chemical quality and use in area, 16362
TAC, *see* Tactical Air Command.
TACAN, *see* Air navigation.
Tachistoscope:
aircraft recognition technique evaluated, 5069
perception, effects of induced muscle tension and auditory stimulation, 9594
Tachometers, variable-capacitance, eliminates troublesome magnetic fields, 7782
Tacoma, Wash.:
principal electric facilities, map, 7377
reduced defense spending, potential impact, 14207
Taconic Mountains, Taconic sequence of New York, new Lower Cambrian trilobite faunule, 12506
Taconite, pilot plant flotation of nonmagnetic taconite and semitaconite, 6313
Tactical Air Command:
military airlift—
hearings, 10230
special subcommittee report, 10231
Tactical vehicles, *see* Vehicles.
Tactics, *see* Military art and science.
Tactual perception, experiments, 1183
Tadzhik Soviet Socialist Republic:
anti-malarial measures, 10815
public health, 14905
Tadzhikistan, *see* Tadzhik Soviet Socialist Republic.

Taft, H. M., low-volume mist sprayer for applying insecticide concentrates from ground equipment, 9772
Taft-Hartley act, *see* Industrial relations.
Tags, automatic pickup in packaging and labeling, 6710
Tainter gates, *see* Gates.
Taiwan:
higher educational institutions, 10424
mineral industry, minerals yearbook chapters, 4779, 19565
savings by providing Government quarters in lieu of payment of quarters allowances to U.S. military personnel, Department of Defense, GAO report, 6019
Takagi, Shunsuke:
plane plastic deformation of soils, 14210
principles of frost heaving, 3815
three-dimensional yield criterion of C–Ø material, 8240
Takeoff (aircraft):
noise, land exposed, optimum use, study, 7732
Talbott, Edgar F., sr., nomination, hearing, 17594
Talc:
lump steatite, disposal from national or supplemental stockpile, or both, law, 412
minerals yearbook chapter, 17868
Talent:
urgent need in Government services, 16540
war on talent waste, Project Upward Bound, 10407
Talent fees, definition under fair labor standards act, 14074
Talent project, *see* Project Talent.
Talented American Senior Corps, establish, hearings, 17589
Talk:
talk and listen, guide for parents, 8163
with baby, guide for parents, 6773
Talking books:
for blind and other handicapped persons—
hearing, 11660
law, 17092
reports, 10217, 13134
Talmadge, H. G., jr., NRL satellite, position display, 2491
Talwar, S. P., volume and surface instability in sliding plasmas, 2405
Tamarisk, Arizona, water table characteristics under, 4453
Tamarix, saltcedar, control, results of field applications of herbicides, 5265
Tampa Bay, bait shrimp, biology, etc., 781
Tanagers, yellow-rumped, display patterns, 9649
Tanaka, Harry H., hydrology of alluvium of Arkansas River, Muskogee, Okla., to Fort Smith, Ark., 6040
Taney, Norman E., interagency conference on Continental Shelf research, 8862
Tank linings, *see* Linings.
Tank vessels, *see* Tankers.
Tankers:
industry, rewards of efficient system (remarks), 9353
rules and regulations, 12767
Tanks:
aluminum, use of electromagnetic hammer to remove weld distortions, 1218
armored equipment, use of plastics, USSR study, 13571
baffled cyclindrical, moment of inertia and damping of liquids, 6334
cryogenic, insulation of reduced thickness and weight, 12292
cryogenic propellant, pressurant requirements, studies, 6419
fiber-glass cryogenic propellant—
thin films as floating liners, 4949
use of glass flakes as liner, 4893
filament-wound fiber-glass cryogenic propellant, bonded plastic tape use for lining, 4950
Tanks—Continued
gas diffuser facilitates withdrawal of cryogenic liquids, 13777
liquid-filled—
effect of projectile size and material on impact fracture of walls, 16688
filament-reinforced plastic or aluminum, projectile-impact induced-fracture, 11076
liquid-hydrogen, of boost vehicles lightweight external insulation system, aerodynamic heating tests, 7838
liquid level, device without electrical connections measures, 9489
longitudinally excited compartmented cylindrical and spherical, liquid surface oscillations, 13719
manure, circular concrete, 15453
milk cooling, on farms supplying Federal milk order markets, 14509
pressurant gas injectors during pressurized discharge of liquid hydrogen, 11077
pressurized liquid hydrogen, interfacial heat and mass transfer, 6425
propellant—
liquid hydrogen, wall and bottom heating, 6439
nuclear heating, simulated, of liquid hydrogen, 6467
pressurization requirements, prediction by dimensional analysis, 12344
simulator for static liquid configuration, 9509
slosh design handbook, 9395
spherical, stability boundaries for planar and nonplanar sloshing, 4954
storage—
industrial plant equipment handbook, 17607
maintenance simplified by interior servicing platform, 17898
thin-wall cylindrical, longitudinally excited, transfer function analysis of fluid contents, 16692
water filled, impacted by high velocity projectiles, pressure waves generated, 4912
Tanks (cargo):
empty, exempt from coastwise trade laws, hearings, 10335
Tanks (military science):
maintenance, Army Dept., GAO, review, 14736
M48A1, equipment modification program, Army Dept., GAO report, 12003
tank units, platoon, company, and battalion, Army field manual, 8252
Tanning and tanning materials:
extracts, suspension of duty, continue—
law, 17102
report, 8557
see also Leather, hides, and skins.
Tannins, vegetable extracts, disposal from national stockpile, hearing, 570
Tanoak, crown and tree weights, 17688
Tantalum:
alloys—
high-temperature, 10919
tungsten, influence of boron additions on physical and mechanical properties, 4973
ultrahigh-vacuum creep behavior at 2000° and 2200° F, 4960
columbium bearing alloy, electric-arc furnace reduction of tin slag for production, 7707
evaporation of Pa-Hf-C system, computational methods for calculation of rates, 9429
minerals yearbook chapter, 16556
tantalum, and alloys, compatibility with hydrogen in presence of temperature gradient, 13842
tubing alloys, compatibility with potassium, 9542

Tantalum carbide:
Hall coefficient, as function of carbon content, 2421
solid solutions, TaC-HfC system, time influence on vacuum vaporization rate and surface compositional stability at temperatures above 2000° C, 12365
Tanzania:
agricultural commodities, agreement, 15357
economy, basic data, 5551
foreign trade regulations, 15646
market for U.S. products, 12059
mineral industry, minerals yearbook chapter, 7695
Rwanda boundary, study, 15343
treaties concluded between United States and United Kingdom, continued application, agreement, 16856
Tao-tai Hsia, *see* Hsia, Tao-tai.
Tapager, James R. D., decoding and plotting, 12410
Tape, Gerald F.:
remarks—
Mar. 22, 1966, 6872
Apr. 22, 1966, 8303
June 1, 1966, 9933
Tape:
dry tape battery concept, development, 2365
energy storage concept uses tapes, 7770
paper, expandable takeup reel facilitates removal, 15129
Tape (magnetic), *see* Magnetic tape.
Tape recorders:
electronic phase-locked-loop speed control system is stable, 12295
endless-loop tape transports for satellite applications, design, etc., techniques, 11050
errata, 16650
Tapia Adames, Juan I., *see* Adames, Juan I. T.
Taps and dies, strippable grid facilitates removal of grid-surfaced conical workpiece from die, 13769
Tapscott, Robert J., flight study with large helicopter showing trends of lateral and longitudinal control response with size, 16672
Tar roofing, *see* Roofing.
Tar siding, *see* Siding.
Tarabochia, Alfonso L., testimony, hearings, 8784
Target practice, national trophy matches, 1965, official bulletins, 5348
Targets:
ground reference, instrument quickly transposes to eye level, 6387
point source, visual detection of satellite with unaided eye, 15065
small arms ranges, Air Force manual, 16944
Tariff:
act of 1930, amend—
law, 8464
reports, 5771, 17218
special and administrative provisions under titles 3 and 4, text, 3528
communications carriers, FCC rules and regulations, 2927
customs conventions, 13081–82
customs duties, code of Federal regulations, 11932
customs hints for returning U.S. residents, 4241
customs regulations, 2822
revised pages, 7250, 10380, 11839
decisions under customs laws, 3623
Customs Court, 8794
duty free treatment of gifts from servicemen in combat areas—
law, 7032
summary, 7170
legislative history, 17399
report, 7086
Senate amendments, summary, 8687
Tariff—Continued
duty, proposed conversion of rates for certain products, investigations, 14044, 18129
quantitative restrictions and quotas on U.S. imports as cited in tariff schedules, 1510
schedules—
amend to change dutiable status of watches, etc., from insular possessions, hearing, 13208
annotated, 3570
long term international cotton textile arrangement categories, 8319
supplements, 2600, 6668, 9743, 12543, 18130
commodity by country, U.S. imports, 9970
technical amendments act of 1965, extension of time for filing certain requests, report, 17317
United States, 3569
summaries of trade and tariff, information, 14045, 16875
treatment of articles assembled abroad of products of U.S., reports, 16130, 17332
U.S. import of free and dutiable goods and average rates of duty, 5552
see also General agreement on tariffs and trade—*also* names of classes of articles imported or exported.
Tariff Commission:
appropriations, 1967—
hearings, 15955, 17567
reports, 15938, 17348, 17539
investigation, textured yarns, report, 1511
notices of hearings, investigations, etc., 3568
press releases, 3408
report 1965—
departmental edition, 5184
document edition, 4062A
Tariffs and trade, general agreement on, *see* General agreement on tariffs and trade.
Tarrants, William E., work injuries and work injury rates in street and highway department industry, 2295
Tarsis, Valeriy:
criticism of writings, 6146
interview with London Sunday Telegraph, USSR comments, 10813
Tartaron, Francis X., prerefining pig iron with cone, desiliconizing techniques, 1160
Tarzwell, Clarence M., biological problems in water pollution, 9624
Task analysis:
Air Force tryout of task rating factors, 6808
pilot describing function measurements in multiloop task, 15052
Task Force on Federal Flood Control Policy, report, 15785
Tasmania, lights and fog signals list, changes, 1337, 6522, 9582, 13895
Taste, babies touch, taste, and learn, guide for parents, 6771
Tatlock, D. B., rapid modal analysis of some felsic rocks from calibrated X-rays diffraction patterns, 4511
Taube, Carl A.:
characteristics of patients in mental hospitals, 5122
employees in nursing and personal care homes, 15310
Taubenfeld, Howard J., weather modification, law, etc., 16743
Tautomerism, phenylhydrazone-phenylazo, chemical structure characterization, progress report of Organic Chemistry Section, July 1965–June 1966, 17944
Tavenner, William H., use of continuous borer in mining pitching anthracite beds, 9380

Tax Court:
appropriations, 1967—
hearings, 7115, 10322
law, 15699
report, 8598
judges, retired pay, change method of computing—
law, 5580
report, 4169
reports (decisions)—
bound volume, 8097
consolidated pamphlets, 3571
Tax exemption:
combat pay exclusion for commissioned officers, increase—
message from the President, 17162
report, 17307
contributions to national and State political committees, amend Internal revenue code, hearings, 16182
nonprofit corporations providing reserve funds for building and loan associations—
law, 5578
report, 4167
pension trust procedures, etc., under internal revenue code, 14779
Tax guide for U.S. citizens abroad, 2125
Tax refunds:
farmers gas tax credit, 14775
internal revenue taxes, refunds and credits, report, 5606
Tax return filing requirements for United States citizens abroad, 2127
Tax returns, *see* Income tax.
Taxation:
Bulgaria, under new system of planning and economic management, 16454
career opportunities, IRS, tax technician, 4571
changes for shortrun stabilization, hearings, 10094
common carrier property, assessments, hearings, 7153
current tax developments (remarks), 15392
current tax scene (remarks), 8099
double, convention with—
Belgium—
protocol, report, 1887
supplementary protocol, 13074
Federal Republic of Germany, protocol, 1887, 6650
Great Britain, supplementary protocol, message from the President, 10277
Israel, 13073
Netherlands—
agreement, 16865
protocols, report, 13087
Philippines, 13071
Thailand, 13072
ratification, hearings, 576
United Kingdom, protocols, report, 13087
employer's tax guide, 854
exports, Action Committee report, 7013
farm real estate taxes, recent trends and developments, 1973
Federal, legal careers in IRS, 857, 17741
Federal tax lien act—
hearings, 5714
reports, 15879, 17522
statements, digest, 7166
Federal tax policy and computer technology (remarks), 11294
Federal tax system and accounting concepts (remarks), 16876
filing requirements for U.S. citizens abroad, 2127
foreign investments in U.S., remove tax barriers, statements, summary, 1878
foreign investors tax act of 1965—
summary, 4149
written statements submitted to Ways and Means Committee, 14446
Taxation—Continued
foreign investors tax act of 1966—
hearings, 7167, 14480
reports, 8618, 12908, 17521
guide for U.S. citizens abroad, 2125
incentives and effluent charges for water pollution control, views of Governors, report, 7092
intergovernmental cooperation in tax administration, summary, 1
intergovernmental relations, results of questionnaire, 8775
Internal Revenue Service publications containing tax information, list, 5095
limiting priority and nondischargeability of taxes in bankruptcy, law, 11592
national tax increases, whether and when (remarks), 8105
President's 1966 tax proposals, hearings, 4151
President's tax program, 5194
President's tax recommendations, summary, etc., 4152
priority and nondischargeability of taxes in bankruptcy, amend law, reports, 5761, 5763–64, 10284
program (remarks), 5195
quarterly tax reports, 3448, 6935, 9968, 11478
railroad retirement tax act, amend to change rates, hearing, 16196
real property transferred by RFC to other Gov't departments, payment in lieu of taxes, extend, report, 17239
small business, 1966, guide, 2124
announcement and order form, 17997
social security—
agricultural employer's guide, 2115
employers in Virgin Islands, Guam, and American Samoa, 2116
household employer's tax guide, 855
States—
and local governments—
personal property located in Federal areas, subject to tax liability, hearings, 14485
primary assessing areas for property, 6938
revenue, 3448, 6935, 9968, 11478
interstate commerce activities, investigation, report, print additional copies, reports, 10187, 14461
interstate taxation act—
hearings, 10253, 11669
report, 17232
tax collections, 1965 report, 3933
tax adjustment act of 1966—
hearings, 5804
law, 7032
summary, 7170
legislative history, 17399
reports, 5659, 5665, 7086
Senate amendments, summary, 8687
summary, 7211
tax changes for shortrun stabilization, subcommittee report, 10095
TVA power and taxes, 5188
U.S. system and international relationships, current developments, 1965–66 (remarks), 1524
see also Capital—Employment taxes—Excise taxes—Franchise tax—Income tax—Inheritance and transfer tax—Internal revenue—Tax exemption—Use tax—*also* names of articles, etc., subject to tax.
Taxes, *see* Taxation.
Taxicabs, Government employees licensed to drive in D.C., investigations, etc., GAO reports, 2087
Taylor, Arthur R., jr., heats of formation of beryllium sulfate and its hydrates, 6316
Taylor, C. J., superior photoengraving process for semiconductor devices, 16607
Taylor, Earl G., Boston wholesale food distribution facilities, 3759

Taylor, F. B., soil survey, Bexar County, Tex., 14023
Taylor, Gale D., effects of hydrazine on blood glucose and muscle and liver glycogen in anesthetized dog, 9864
Taylor, H. Ralph, nomination, hearing, 10330
Taylor, James L., planning functional facilities for home economics education, 5880
Taylor, John G., brooding chicks with infrared lamps, 41
Taylor, John K., Microchemical Analysis Section, summary of activities, 16719
Taylor, Maxwell D., statement, Feb. 17, 1966, 9722
Taylor, W. C., plasma effects in near-zone field of antenna, 16616
Taylor, Walter W., relief, 15806, 17422
Taylor instability, *see* Hydrodynamics.
Tea, foreign agriculture circulars, 2987
Teach-in movement, and anti-Vietnam agitation, problem of Communist infiltration and exploitation, staff study, 1885
Teachers Corps, National, *see* National Teacher Corps.
Teachers:
  around the corner, views to prepare high school students for tomorrow's world, 14030
  citizenship, aids, resource unit, 6050
  city public schools, 1925–65 salary trends, 13618
  civil defense adult education, personal and family survival, manual, 11884
  Defense Dept. overseas, correct inequities in compensation—
    law, 8467
    reports, 4173, 7101
  District of Columbia—
    increase annuities—
      law, 11590
      report, 8743
    performing extra classroom duties, additional pay—
      hearing, 13205
      reports, 12971, 13149
    salaries, increase—
      hearings, 13205, 13207
      reports, 12971, 16139, 17312
  elementary and secondary, in school districts having high concentration of low-income families, salary incentives, hearings, 5691
  elementary and secondary schools—
    book selection aids, 8836
    fall 1965, statistics, 7307
  English teaching forum, facts and ideas for teaching English as foreign language, 1526, 5199, 8107, 12550, 16892
  examination announcement, 15630
  experienced, elementary and secondary, fellowships for graduate study, program, 7305
  Federal income taxes program, general, guide, 2128
  foreign languages, secondary school, source materials for, 7321
  general engineering faculties, seminars, Kiev, Ukrainian SSR, 6138
  go abroad for teaching and seminars, 11883
  head start child development centers, guidelines for selecting equipment and supplies, 4277
  higher education act of 1965, prospective teacher graduate fellowships and programs, 1966–67, 11880
  how to instruct trainees on job, instructor's guide, 9881
  industrial arts, survey, 13274
  international development program, 10426
  kindergarten, elementary, secondary, college and university, employment outlook, 9282
  National Teacher Corps, guidelines, 14555
Teachers—Continued
  NDEA institutes for advanced study in history, English, etc.—
    list, how to apply, etc., 5884A
    preparing proposals, manual for colleges, 5877
  Negroes displaced in southern schools, N.Y. program to reclaim, 16235
  occupational instructors preparation, course guide, 10430
  opportunities abroad for teachers, teaching, summer seminars, 14558
  teachers of the deaf, preparation, conference, 13279
Teaching:
  aids, duty-free entry, reports, 16130, 17332
  aids needed under Montessori methods of instruction, free importation, amend tariff schedules, report, 17306
  approach to college teaching, 13277
  electronic machines to understand language, USSR study, 900
  Federal income taxes program, general, teacher's guide, 2128
  foreign speech, form of presentation, USSR study, 10799
  incentive act of 1965, hearings, 5691
  planetarium, elementary-school teaching resource, 17887
  sport skills, manual, 13948
  teachers go abroad for teaching and seminars, 11883
  Volgograd higher educational institutions, reform of economics, 13527
  see also Programmed instruction—*also* subjects taught.
Teaching a machine to think, 4604
Teaching machines:
  and programmed learning, USSR studies, 13503
  Bulgarian Vitosha M–3, general information, 13530
  developments in programmed learning, USSR study, 9171
  programmed learning, programmed textbooks, USSR study, 10734
  programmed, USSR study, 6196
  USSR, use in higher schools, 13465
Teal, hunting season, Sept. 1965, experimental, 10540
Team training research, 5066
Teamsters Union, *see* International Brotherhood of Teamsters, Chauffers, Warehousemen, and Helpers of America.
Teamwork:
  growing America (remarks), 1388
  laboratory research on team training, 12421
  Naval reserve team training guide, 13904
  TVA and Tennessee Valley Trades and Labor Council (periodical), 3572
Technical abstract bulletin, Government-wide index, 3025, 12759
Technical Advisory Committee, Civil Defense Office, organization and use, 17027
Technical assistance:
  EDA program, what it is, how to apply, 1967
  EDA technical assistance, what it is, how to apply, 4265
  management and technical aid for displaced small businesses, 11218
  see also Foreign aid.
Technical bulletins:
  Agriculture Department, 67, 1609, 3772, 5298, 6783, 8169–72, 11369, 14162–164, 16942–943
  Army Department, 5368, 15514
  Coast and Geodetic Survey, 315, 3994, 10004, 11504, 14314, 17050
Technical cooperation, report of Committee on Technical Cooperation and Investment, National Citizens' Commission, 1549
  see also Foreign aid—*also* name of country.

Technical cybernetics (USSR periodical): translations, 14862, 16466
Technical data, *see* Technical information.
Technical documentary report, Electronic Systems Division, 3784
Technical education:
agriculture, objectives, 4315
Moscow People's University of Physical and Technical Knowledge, USSR study, 984
review of activities in federally aided programs, 14563
technical education program series, 11868
Technical guide, Urban Renewal Administration, 8109
Technical information:
cooperation, etc., among information systems, literature review, 11091
improved management and determination of requirements for procurement, Army regs., 15504
organizational, technical and logistical data, staff officers' field manual, 3823
service, regional distribution of Government R & D information, 2453
Technical inspection manual, Naval Weapons Bureau, 5077
Technical instruments:
and equipment, Japan, 4014
exports, 1959–65, analysis, 9940
Technical journal of soils (Chinese periodical):
translations, 16398, 16467
Technical manuals, Army Department, 127–134, 1648–58, 3831–35, 5369–75, 6844–48, 8262–71, 9901–11, 11404–408, 12660–664, 14222–231, 15515–521, 16962–966
see also names of departments, etc., issuing manuals.
Technical memorandums:
Civil Defense Office, 1747, 5513, 12746, 14291
Coastal Engineering Research Center, 13291
National Aeronautics and Space Administration, 1238–40, 2404, 4892–95, 7810, 9500–1, 15130, 16647, 17910
Technical news bulletin, National Bureau of Standards, 3573
Technical notes:
National Aeronautics and Space Administration, 1241–80, 2405–37, 4896–4982, 6411–70, 7811–95, 9502–43, 11046–79, 12332–369, 13801–846, 15131–201, 16648–707, 17911–931
National Bureau of Standards, 1297–1300, 2454–55, 5010–19, 6477–80, 7919–22, 9553–56, 11096–100, 12387, 13860–868, 15209–211, 16715–720, 17941–945
National Severe Storms Laboratory, 1536–37
Technical orders, *see* names of departments, etc., issuing orders.
Technical papers:
Census Bureau, 271
metallographic group meeting, 147–149
Northeast Corridor transportation project, 8428
Sport Fisheries and Wildlife Bureau, 7444, 14679
Weather Bureau, 5229, 9767, 14077, 16901
Technical progress reviews, 3092, 3283, 3335, 3452–53
Technical publications:
National Bureau of Standards, 13869
Outdoor Recreation Bureau, 11165
Technical record of design and construction, Trinity River division features of Central Valley project, 12495
Technical report system description, 15384
Technical reports:
Aerospace Medical Division, 5299, 15481
Arctic Aeromedical Laboratory, 76–82, 3780–83, 5312–15, 6797–99, 9857–60
Technical reports—Continued
Army Aviation Materiel Laboratories, 135–139, 1659–72, 3836–38, 8272–73, 14232–233, 15522–523
list, 9912
Army Engineer Division, North Pacific, 11890
Civil Defense Office, 3965, 5514–15, 12747, 14292, 17032
Cold Regions Research and Engineering Laboratory, 118–119, 3818–20, 8245–48, 9891–92, 12650, 14212, 16957–958
Electronic Systems Division, 83, 3785–86, 5317, 6801, 8193–94, 9861, 16949
highway planning, 9637
National Aeronautics and Space Administration, 2438, 4983–86, 6471–72, 7896–98, 9544, 11080–81, 12370–373, 13847–848, 15202, 16708–709, 17932
National Capital Open-Space Project, 1302
National Resource Evaluation Center, 659
Naval Air Test Center, 7975
Naval Ordance Laboratory, White Oak, Md., 2502
Naval Research Office, 5070–76, 9593–94
Naval Training Device Center, 1350, 2490, 5066–69, 6536–37, 7970–73, 11154–155, 12421, 13910, 15250–251
Personnel Research Laboratory, 90, 3790, 5323, 6805–8, 8198–8200, 14183–184, 15487–488, 16950
Rome Air Development Center, 8201
School of Aerospace Medicine, 93–100, 1621–27, 3792–99, 5327–36, 6810–16, 8202–20, 9863–77, 11378–384, 12628–646, 14190–196, 15489–495
Waterways Experiment Station, 678–682, 1991–93, 4338–44, 5887–91, 7335–38, 8864–65, 10443–446, 11897–899, 13295–298, 14575–576, 16249–251
Technical research notes, Army Personnel Research Office, 1673, 3839–42, 5377, 8274–75, 9914, 12667, 14234
Technical research reports, Army Personnel Research Office, 3843, 9915, 15524–525, 16967
Technical Sciences Department:
Academy of Sciences, Hungary, status of research under guidance, activities, 9081
Academy of Sciences, USSR, technical cybernetics, news, 1035, 6213
Technical services:
State, information dissemination (address), 11530
United States Army in World War II, 9358, 10907
universities as technological centers, new concepts in development, State technical services act of 1965 (address), 10022
Technical studies, Federal Housing Administration, list, 10474
Technical study series, National Commission on Food Marketing, 13871, 15215–218, 16722–733, 17947–949
Technical translations:
bibliography (periodical), 3574
National Aeronautics and Space Administration, 1281–86, 2439, 4987–5001, 6473–74, 7899–7902, 9545–48, 11082–83, 12374–376, 13849–850, 15203, 16710
Technical writers, *see* Authors.
Technicians:
Army National Guard—
manning criteria, 5023, 7926, 12391
program, job descriptions, pamphlet, 11103
career opportunities, civilian, Air Force Dept., 15485
careers, technical occupations, 5870
civil technology, highway and structural options, 2-year post high school curriculum, 11868
communications 0 3 & 2, Navy training course, 2487
current employment market, 664–665, 14567

Technicians—Continued
engineering and science technicians, employment outlook, 9284
engineering and scientific technician examination announcement, suspension notice, 14312
engineering, examination announcement, amendment, 12750
engineering, pay, survey, Feb.–Mar. 1965, 2303
National Guard, clarify status—
hearings, 15962
report, 17225
scientific and technical personnel in oceanography, 17649
see also Dental technicians—Electronic technicians—Fire control technicians—Radio service technicians—Radiology technicians—Television service technicians—X-ray technicians—Zootechnicians.
Technological change in hospital, 4332, 7328
Technological Laboratory, Gloucester, Mass., Commercial Fisheries Bureau, reports, 2037, 11965
Technologists, *see* Medical technologist.
Technology:
and American economy, 7923
appendix, 13872
and brain, USSR study, 2231
and public policy (lecture), 15659
application of thin-film, in microminiaturization of measuring equipment, USSR translations, 7630
automation and technology in education, 17151
Bulgaria, progress, 14954
Bulgarian technical research, financing system, 13529
cathode ray, development trends, East Germany, translation, 12160
Chinese Communist, evaluation of comprehensive study, 16460
civil, highway and structural options, 2-year post high school curriculum, 11868
Commerce Department, background information, 10045
Communist China, translations, 3598
design and drafting, 1965–75, report, 17800
discoveries, patent system, and progress in our economy (address), 8414
economic and social implications, current projects, 16741
education (address), 4029
educational technology, hearings, 14375
extreme vacuum developments, 1184
future international meetings, world list, 3716
historical-technical analysis, use of electronic computer, USSR study, 7592
Hungary, Department of Technical Sciences, report, 10707
interaction between space exploration, science, and technology (address), 1288
Lenin prize, nominations, 6229
mining review, minerals yearbook chapter, 13700
NASA technical reports for 1965, selected listings, 12290
NASA technology utilization publications, listing, 9549
NASA's technical information system, how to use, 7720
National Referral Center for Science and Technology, 6278
national standard reference data system, NBS, status report, 11098
Panel on Science and Technology, 7th meeting—
papers, 8682
proceedings, 5709
Patent Office and technological progress (address), 15256
patents and spread of technology (address), 17059
Technology—Continued
petroleum industry, Conference on Selected Technology, Lewis Research Center, papers, 15085
philosophical aspects, USSR study, 2255
progress, international cooperation (address), 8426
proposed technical approaches (PTA), Naval Material Office guide for preparation, 13912
reactor technology, 1965 selected reviews, 5409
report of Committee on Science and Technology, National Citizens' Commission, 1548
rocket, pioneers, 1286
science, technology and future of society (address), 15658
science, technology, and role of Federal Government (remarks), 170
scientific and technical information analysis center managers, directors, and professional analysts, Ad-Hoc forum—
directory, 12677
proceedings, 12676
State technical services act—
amend to include Guam, report, 17268
fact sheet, 11527
regional opportunity (address), 4027
special merit programs, 11528
steps for State participation, 11529
status and trends, NASA symposium, 6358
technical instruments and equipment, market in France, 1773
technical manpower, impact of Federal research and development policies, hearings, 1949
technological change and employment, 7676
outlook, 13872
technological developments as of Mar. 1, 1966, BLS publications, list, 10881
technological trends in major American industries, 13607
textile & apparel technology program, 1301
training in perspective of technological change, seminar on manpower policy and program, 4699
transfer and innovation, guide to literature, 14329
USSR—
Lenin prizes awarded, 12150
Lenin prizes, 1966, recipients, 9172
progress, 2245
scientific technical problems, use of electronic computers for computing, 9120
technical progress through economic incentive, conference, 9101
utilization bibliography (series), 6357
utilization program of NASA for industrial and consumer benefit, 7903
see also subjects.
Technology Utilization Division, NASA, publications, selected listing, 9549
Tectonic creep, *see* Tectonics.
Tectonics:
Hayward fault zone, Calif., tectonic creep, 4517
Keweenawan Basin, western Lake Superior region, 9020
Tectonosphere, *see* Earth.
Teenagers, *see* Youth.
Teeth:
children, care of, 12733
enamel, protection by stannous fluoride prophylaxis pastes, 6816
increased caries resistance associated with higher parotid fluid flow rate, 9866
mobility, effect of—
mastication and deglutition, 9867
tube-type diet and stress-inducing conditions, 12632
Teetsel, Dorothy A., thermal degradation, etc., of high polymers, 8816
Teflon, *see* Polytetrafluorethylene.

239–221—67—No. 863——38

Tegeler, Henrietta H.:
agriculture of west Asia, 5867
Cyprus' agricultural economy in brief, 14544
Jordan's agricultural economy in brief, 8831
Tejon, Maria V. S., *see* Tejon, Virginia S.
Tejon, Virginia S., relief, 5631
Tektites, Muong Nong, lunar structures as deduced from, 15172
Telecommunication:
agreement with Viet-Nam, 8083
code of Federal regulations, 8918, 10500–502
electromagnetic spectrum utilization, the silent crisis, 17054
international, convention and protocol, 13083
unified S-band techniques for Apollo, 9524
see also special method of communication.
Telecommunications Research Institute, Hungary, scientific meeting on 50th anniversary, 7578
Telecommunications Sciences and Aeronomy Institute, ionospheric predictions (periodical), 3088
Telegrams through space, USSR, 4634
Telegraph:
carriers—
domestic and overseas reporting annually, statistics, 14620
quarterly operating data, 3443
communications in railroad transportation, USSR study, 16400
franks, FCC rules and regulations, 2927
House Members, additional allowances, report, 12928
wire, classsification of employees, FCC rules and regualtions, 2927
see also Phase telegraphy.
Telemechanics, USSR all-Union scientific session devoted to radio day, 14816
Telemetering signals, video, adaptive data compression, 9523
Telemetering systems, *see* Radiological telemetering systems.
Telemeters, frequency and frequency-time systems of digital telemetering, USSR study, 7629
Telemetry:
binary data, biasing effect of random bit errors, 16652
channel, PN acquisition demodulator achieves automatic synchronization, 12313
data frame readout system, 7872
error rate reduction of parity checked data by likelihood deletion strategy, 15181
FM, and free-flight techniques for aerodynamic measurements in wind tunnels, 6462
integrated telementry-computer system, 7894
miniature bioelectronic device accurately measures and telemeters temperature, 6383
PCM, all-magnetic—
feasibility breadboard, 17879
review of system breadboard, 9409
PCM and PFM systems, comparison, 15142
PCM frame synchronization strategies, computer program to evaluate, 7858
PFM data, digital computer processing, 7722
PFM high resolution processing improvement using signal conditioning, 9503
phase-coherent and non-phase-coherent coded communications, comparison, 7814
processing for NASA scientific satellites, 13806
space, statistical data compression technique, 16680
systems, miniaturized VHF FM/FM, 3798
telemechanics, USSR studies, 6239
see also Radio telemetry.
Telepathy, *see* Thought-transference.
Telephone:
abusive and harassing calls in interstate or foreign commerce, amend communications act, hearings, 17574
carriers—
annual statistics, 14621
quarterly operating data, 3442
companies—
class A and class B, classification and compensation of employees, FCC rules and regulations, 2927
consolidation, acquisition or control applications, FCC rules and regulations, 2927
uniform system of accounts, FCC rules and regulations, 2012, 2926
current industrial reports, 2818
directories—
House of Representatives, 4044
Senate, 536, 10274
State Department, International Development Agency, Arms Control and Disarmament Agency, 1493, 11260, 15344
franks, FCC rules and regulations, 2927
House Members, additional allowances, report, 12928
households with telephones, Mar. 1965, population characteristics, 3925
how to use, 9030
materials acceptable on systems of REA borrowers, list, 3154
occupations, employment outlook, 9312
operations and loans, field representative, examination announcement, discontinuance notice, 5520
recorded messages, unlawful unless subscriber identified, hearings, 7205
rural, construction contract, labor and materials, 12497
Rural electrification act of 1936, amend, proposed legislation, 11211
Rural Electrification Administration—
borrowers systems, list of materials acceptable, 11212
telephone loan account, establish, hearings, 13011, 17356
statistical bulletin, 3447
Telephone cables, splicing, cable terminations and repairs, technical manual, 1657
Telephone lines, extension, etc., FCC rules and regulations, 2927
Telephone operators:
employment outlook, 9268
examination announcement, 11500
Telephone poles, *see* Poles.
Telescopes, catadioptric, with mirror-lens correction, USSR study, 9080
see also Radio telescopes.
Telescoping of instrumentation tubing eliminates swaging, 10988
Teletherapy, programs, AEC licensing guide, 5381
Teletype:
electroluminescence vs teletype readability of weather messages, information processing, study, 6801
modernized weather teletypewriter communication system, technical report system description, 15384
teletypewriter set AN/PGC–1—
operator training course, 5365
organizational mechanic/repairman course, 5362
Teletypewriter, *see* Teletype.
Television:
adaptive data compression for video signals, 9523
bandwidth requirements, variable word length encoder reduces, 1221
broadcast actions, reports, 2916
broadcasting—
agreement with Viet-Nam, 8083
occupations, employment outlook, 9310

Television—Continued
broadcasting stations of world, indexed by country, city, frequency, 14689
capabilities for making navigational measurements, 7875
closed-circuit system, for study of Gemini-Agena docking, 2414
cloud photography, meteorological satellite data, catalogue—
ESSA I, 14580
TIROS VII, 1535, 8867
TIROS VIII, 5900, 14579
TIROS IX, 11902
community antenna systems, FCC regulation, hearings, 10250
compression of video data by adaptive nonlinear prediction, 13813
educational facilities program, public notice, 2877
establishment of television system, agreement with Saudi Arabia, 18126
households with sets in U.S., current housing reports, 3919
infrared, used to detect hydrogen fires, 13798
medical teaching and research, survey and bibliography, 4319
professional football telecasts, protect secondary school contests, reports, 16156, 17341
rainbow, Molniya color transmission over 80,000 kilometers, USSR study, 4635
ratings, methodology, accuracy, and use, report, 4082
selling and servicing, bibliography, 12503
sets, current industrial reports, 1732, 15586
stereoscopic pictures, producing with screen of cylindrical lenses, 7762
TIROS coverage of 1963 Atlantic hurricane season, 12335
USDA films, 9823
USSR all-Union scientific session devoted to radio day, 14939
violence and crime portrayed, effects on young people, juvenile delinquency investigation, report, 1924
Television cameras, *see* Cameras.
Television ophthalmoscopy, workshop, proceedings, 15297
Television service technicians, employment outlook, 9285
Telluric currents, *see* Geophysics.
Tellurides, yttrium, thermoelectric properties, 17860
Telomerization, beta radiation-induced, methanol with ethylene, 8290
Temel, Jacobo, relief, 8520, 12810, 13112
Temperature:
and pressure measurements of cavity for decoupled nuclear explosion, feasibility, Project Dribble, Salmon event, 3852
bimetallic devices help maintain constant sealing forces down to cryogenic temperatures, 13760
boron-deoxidized copper withstands brazing temperatures, 15092
changes in temperature field and circulation in stratosphere, influence of tropospheric processes, 4994
control, of structures in space flight, by special coatings, 1213
control system maintains compartment at constant temperature, 10997
control unit for sounding rocket applications, 16655
controlled with closed fluid system without moving parts, 1207
cryogenic, optical gyro pickoff operates, 7784
determination by polarographic technic, 5334
effects on maximum induction of magnetic materials, determination, 15175
electrically conductive fibers thermally isolate sensor, 13784
Temperature—Continued
elevated, effect on mechanical strength of coke and iron ore pellets, 13696
empirical profiles, static diffusion models of upper atmosphere, 2560
entropy diagram for parahydrogen triple-point region, 17943
environmental, effect on lethality of endotoxin and its effect on body temperature in mice, 5314
geothermal investigations, properties of thermistors and preparation of thermistor cables, 9009
Greenland ice sheet, snow, 6830
high—
diaphragm valve for fluid flow control, 15096
formable aluminum alloys for service, USSR study, 4611
gas transport properties, evaluation, 17873
heat content of lithium columbate, 17867
influence of yttrium on oxidation of nickel at 1,200° C, corrosion studies, 12255
inorganic salts, properties and decomposition, 17940
kiln drying of lumber, bibliography, 16336
protective coatings for molybdenum and tungsten, 1295
reduction of ferrous oxide, 4794
silazane polymers application, 12293
supersonic and hypersonic environments, oxidation of graphite, 12343
thermocouple operates in reduction atmosphere, 7788
high altitude—
measurement, agreement with Spain, 12538
thermistor arrangement to improve measurements, 13716
high-power-level temperature controller for space flight applications, 7842
high-temperature properties of—
cesium, 1358
potassium, 1356
sodium, 1357
hydrogen gas flowing in heated tube, laminar-flow, instability resulting from increases in temperature, 9514
influence on sugar maple and yellow birch germination in upper Michigan, 5983
jet, effect on refraction of sound, 10960
low-temperature, high-pressure electrical connector makes no-leak seal, 7759
magnetohydrodynamic boundary layer between parallel streams of different magnetic fields and temperatures, 7748
manned spacecraft cabins, thermal regulation, 7867
mean annual maximum, maps, 5893
mean date of last 32°(F.) temperature in spring and first 32°(F.) temperature in autumn, 8866
measurement, spectroscopic method not requiring transition probabilities, 6333
miniature bioelectronic device accurately measures and telemeters, 6383
multiple temperatures sampled using one reference junction, 12302
normal daily maximum, minimum, average, and range, maps, 4345
optimum brine heater outlet, in sea water conversion evaporators, 12053
Pacific Northwest, monthly, 3307
pressure and temperature in conterminous U.S., interdiurnal variability, 9767
radiation used to temperature compensate semiconductor strain gages, 10995
RF induction heater, auxiliary coil controls, 6393
room and elevated, fatigue of René 41 under constant-and random-amplitude loading, 1256

Temperature—Continued
spacecraft, control by thermostatic fin, design considerations, 10966
surface, measurement by optical and ratio pyrometers, 15193
thermophysical properties of potassium, summary, 4904
TIROS radiation measurements and variations in atmospheric heating, 17874
transducer has high output, is time stable, 1237
underground, East Tintic district, Utah, 4521
upper stratosphere and wind measurements, 13848
White Sea, water in active layer, method of calculating, USSR study, 12157
wide-range, monitoring, and compensating networks in scientific satellites, new design approach, 16681
see also Body temperature—Cold—Heat—Heat transfer—Ocean temperature.
Temperature indicators:
fusible, use for obtaining quantitative aerodynamic heat-transfer data, 4986
use of braze alloys, 12315
Temple Mountain, geology and uranium deposits of district, Emery County, Utah, 9007
Ten-bit analog-to-digital converter, 17925
Tenebrionidae, *see* Beetles.
Tengan, Matsusuke, relief, 5723, 15687
Tennent, Richard C., hydraulic analysis of circular culverts, 5125
Tennessee:
census of business, selected services, area statistics, errata, 198
census of manufactures, 1963, manufacturing plants, location by county, industry, and employment size, 14259
climatological data, 2751
congressional districts, 90th Congress, 15605
county business patterns, 3915
divorced persons, characteristics, 1960–61, 1444
electric rate book, 722
life tables, 18050
mineral industry, minerals yearbook chapter, 1146
precipitation data, hourly, 3045
Smith County Soil Conservation District, farm pond for dairy cows and fishing (colored poster), 9702
south-central, Cumberland Escarpment and Highland Rim, interpretation, 6034
Tennessee River and Valley:
basin, above Chattanooga, precipitation, probable maximum and TVA, 1534
furniture production, 2607
land and its uses, inventory, 15390
precipitation in basin, monthly, 3336
TVA tames river, 15391
Tennessee Valley Authority:
act of 1933, amend, 11607
hearings, 11682, 14503
agricultural and chemical development, 1965 annual report, 6670
annual report, 2601
appropriations, 1967, public works—
hearings, 10229
law, 401
Board of Directors, member, nomination of Don McBride, hearing, 10369
bonds to finance power program, increase limitation, 11607
hearings, 11682, 14503
comparison of coal-fired and nuclear power plants, 14046
electricity sales statistics, retail distribution, 2880
financial statements, 1965, 6671
GAO examination, 4495, 11603
indexed bibliography, cumulative supplement, Jan. 1963–Dec. 1964, 12544
Tennessee Valley Authority—Continued
industrial development in area, 11292
power—
annual report, 5187
municipal and cooperative distributors, 1965 operations, 2609
revenue bonds issued, increase amount—
law, 15720
reports, 10176, 11620, 13160
teamwork (periodical), 3572
TVA dams and steam plants, 8098
TVA power and taxes, 5188
TVA power, 1966 program, 11293
TVA program, bibliography, 11291
TVA today, 6672
TVA's influence on electric rates, 5189
Tennille, Ga., railroad accident, 12083
Tensile strength, *see* Strains and stresses.
Tension:
cold stress, parameters, effects, mitigation, 82
effect of tube-type diet and stress-inducing conditions on tooth mobility, 12632
heart diseases and the psyche, review of research grants, 12472
muscle, effects on tachistoscopic perception, 9594
physiological observations on race car drivers, 15068
stresses effect on precipitin response to human serum by rabbit population, 8218
symposium of medical aspects of stress in military climate, 141
See also Strains and stresses.
Terbium oxides, high-temperature heat contents and entropies, 12248
Teren, Fred:
explicit guidance equations for multistage boost trajectories, 4936
payload optimization of multistage launch vehicles, 4938
Terephthalate, *see* Polethylene terephthalate.
Terhune, R. W., surface motion measurements, Project Dugout, 16972
Terminal boards, adhesive backing eliminates mounting screws, 2400
Terminal instrument procedures, TERPs, U.S. standards, 16255
Terminals (cable):
electrical, friction-fit, standoff tool speeds placement, 1223
load-carrying, for armored electric cables, 2493
Terminals (transportation):
foreign trade and Federal Maritime Commission, appraisal (address), 14633
Terrain:
electromagnetic analysis laboratory investigations, 680
muskeg, confined organic, trafficability tests, summer 1962 tests, 5890
Terrazo, workers, employment outlook, 9216
Terrestrial impact structures, bibliography, 16356
Terrestrial magnetism:
design of numerical filters for geomagnetic data analysis, 12338
geomagnetic disturbances at high latitudes, investigation, 4992
geomagnetic geometry tables, 7725
see also Magnetograms.
Territories:
health authorities, 1966, directory, 16793
income tax, withholding from compensation of Federal employees, regulations, rescission, 15395
inheritance laws, digest, 11307
Territories Office, appropriations, 1967, hearings, 7113
Terrorism:
organizations, curb—
hearings, 17396
report, 17352
Terry, David D., Lock and Dam, *see* David D. Terry Lock and Dam.

Terry, James M., miniaturized VHF FM/FM telemetry system, 3798
Tertiary amines, *see* Amines.
Terts, Abram, *see* Sinyavskiy, A.
Test chambers, variable-environment, for physically testing materials, 7786
Test strips detect different CO_2 concentrations in closed compartments, 4883
Testes, function in roosters and mice exposed to increased partial pressure of oxygen, 12631
Testimony, *see* Evidence.
Testing:
design, conduct and analysis of Air Force tests, guide, AFSC pamphlet, 14178
detecting cracks with paramagnetic fluorescent media, East German study, 4682
drop-weight, explosive liquids, 12254
National defense education act program, questions and answers, 653
nondestructive, military standard for symbols, cancellation notice, 7263
nondestructive testing series—
electromagnetic inspection of materiel, radiography, 16213
quality control and non-destructive, all-Union scientific and technical conference, USSR, 12139
simple, nondestructive test identifies metals, 13741
State Department of Education personnel, directory, 7301
see also Ability—*also* names of substances or objects tested.
Testing apparatus:
physical properties testing equipment, industrial plant equipment handbook, 8799
semiautomatic device tests components with biaxial leads, 13772
standard allowance of test equipment, FAA handbook, 8873
vacuum test fixture improves leakage rate measurements, 12326
Testing kits, dispenser leak-tests rubber gloves, 9473
Tests, *see* Examinations—*also* types, or names of tests.
Teton County, Idaho, geology of Garns Mountain quadrangle, 9010
Tetrabromoethane, laboratory processes for washing from mineral particles, 6320
Tew, R. W., photosynthetic halophiles from Owens Lake, 4818
Texas:
area measurement report, 1697
balanced export and domestic trade (address), 5544
Big Bend region, species of Oedemeridae, 2469
census of business, 1963 retail trade, area statistics, errata, 191
climatological data, 2751
congressional districts, 90th Congress, 15610
cotton basket-storage systems, cost, 1964, 50
cotton cooperatives, services and benefits, 5908
cotton varieties planted in early producing section, 10375
county business patterns, 239
electric rate book, 16276
fishery products, wholesale dealers, list, Mississippi River and tributaries, 775
high plains, water resources, 5266
iron and steel scrap, 9360
landings, fish and shellfish, 3575, 13337
life tables, 18051
lignite beds, delineation by statistical techniques, 16578
longhorns, conservation note, 10530
Lower Rio Grande Valley, citrus prices and market structure, 8148
Texas—Continued
manufacturing plants, location by county, industry, and employment size, 1963 census, 16996
mineral industry, minerals yearbook chapter, 2343
natural resources, 848
northeastern, low-flow characteristics of streams in Mississippi embayment, 10641
precipitation data, hourly, 3045
San Saba-Brady Soil Conservation District, Hereford cattle on irrigated coastal bermudagrass (colored poster), 9703
Texas and Pacific Ry., accidents, 6097, 12086
Texas City, Tex.:
commodity transportation survey, production area series, 8346
stability of seawall, hydraulic model investigation, 11898
Textbooks:
Armed Forces Institute, 5842
for Soviet schools, 14565
parochial school students and religious freedom, State laws, 16241
programmed, USSR study, 10734
Textile machinery, exports, prospects (address), 8424
Textile mills:
products—
census of manufactures, 1963, manufacturing plants, location, 12698
commodity transportation, survey shipper series, 212
Textiles:
broad fabric weaving, current industrial reports, 246
broad-woven fabrics finished 1964, preliminary, current industrial reports, 247
broad-woven goods, blends and mixtures, 1965, current industrial reports, 15583
cotton broad-woven goods, current industrial reports, 249
dyeing and finishing, census of manufactures, 1963, industry report, 5440
expanded vinyl fabrics for furniture upholstery use, standard of trade, 11089
Federal item identification guides for supply cataloging supplements, 2939
industry—
and international trade (remarks), 5542
problems and challenges (address), 6999
rehabilitation program (remarks), 4023
knit cloth for sale, current industrial reports, 256
change sheet, 12709
machinery, industrial plant equipment handbook, 7257
man-made fiber broad woven goods, current industrial reports, 257, 2818, 5481
miscellaneous fabricated products, census of manufactures, 1963, industry report, 6896
miscellaneous goods, census of manufactures, industry report, 3888
nonwoven fabrics, bonded fiber and conventional felts, current industrial reports, 3922
quality assurance information handbook, 16207
synthetic, industry—
industrial waste guide, 2533
wage survey, 17809
textile & apparel technology program, 1301
tufted products, 1965, current industrial reports, 265, 8357
wool, broad woven goods, current industrial reports, 2818
woven fabrics, current industrial reports, 2817
woven fabrics, tariff treatment, amend—law, 8481
report, 8729
see also names of textiles.
Textured yarns, 1511, 7212
TFE, *see* Polytetrafluoroethylene.
TFX (tactical fighter experimental airplane), *see* Airplanes.

Thailand:
amity and economic relations, treaty, 13084
background notes, 8053
Burma boundary, 8064
gazetteer, official standard names, 14743
geographical index, 1026
income-tax convention, 13072
investment guaranties, agreement, 8076
land snails of genus Amphidromus, 1326
Malaysia-Thailand boundary, study, 2580
market factors, 12785
mineral industry, minerals yearbook chapter, 2344
postal services of U.S. Armed Forces, on-site inspection, report, 17258
tax convention, ratification, hearings, 576
Thatcher, John W., instrumentation for primary and secondary excitation of low-energy X-ray spectral lines, 1161
Theater of operation, *see* Combat areas
Theodore, Augustus J., relief, 15816
Theological roots for hospital ministry, 16895
Theory of liquids, 17740
Therapeutics:
allergy and use of biologically active agents, USSR study, 7627
diet therapy in nephropathy concomitant with bile duct diseases in children, USSR study, 1032
family therapy, annotated bibliography, 7929
reserpine therapy in cerebral edema, 3795
standards, utilizing data of medical examinations, USSR study, 7550
treatment of gunshot wounds, USSR study, 4661
uses of isotopes, 5427
Therapists, all-Union Congress of physio- and health-resort therapeutists, USSR, 14914
Therapy, *see* Therapeutics.
Thermal analysis, *see* Heat.
Thermal conductivity, *see* Heat transfer.
Thermal cycling:
effect on tensile and compressive strength of reinforced plastic laminates, 2074
thin-film cadmium sulfide solar cells, 16657
Thermal decomposition, *see* Decomposition.
Thermal degradation processes in polysiloxanes and thermal stabilization by cerium inhibitor, 16759
Thermal diffusion, *see* Diffusion.
Thermal environment, *see* Environment.
Thermal insulation, *see* Insulation.
Thermal phenomena during ignition of heated dust dispersion, 13695
Thermal radiation:
absorptance of metallic and coated surfaces, 4968
chromium oxide coatings improve thermal emissivity of alumina, 11020
energy, accurately measured by calorimeter, 6384
nozzle of gaseous-core nuclear propulsion system, effect of seeded propellant layer on, analysis, 2415
ocean thermal structure forecasting, 12411
properties, procedures for precise determination, 6478
sounding of water surface layer from radiation of heat, 16411
see also Heat transfer.
Thermal reactions of shale-oil components, methylpyrroles, butylpyrroles, and isopropylpyrroles, 6314
Thermal shock:
peripheral, rock disk, stress analysis, 15024
pigmented coating resists, 1229
Thermal stabilization of soils, 4344
Thermal stresses, *see* Strains and stresses—Thermoelasticity.
Thermionic converters, space-charge theory, Schottky theory, and isothermal diode sheath theory, 6465
Thermionic emission, diffusion and electron emission properties of duplex refractory metal thermionic emitters, 15044
Thermistors:
arrangement to improve temperature measurements at high altitudes, 13716
cables, used in geothermal investigations, preparation, 9009
determination of atmospheric density with rocket-borne thermistor, USSR study, 2269
used in geothermal investigations, properties, 9009
wedge immersed thermistor bolometer measures infrared radiation, 1206
Thermobia domestica, *see* Firebrats.
Thermocouples:
compound improves interface with sensed surface, 7777
high temperature, operates in reduction atmosphere, 7788
liquid trap seals thermocouple leads, 11006
multiple temperatures sampled using one reference junction, 12302
Thermodynamics:
and transport properties for N_2O_4-$2NO_2$-$2NO+O_2$ system, 7851
aqueous solutions of quaternary ammonium salts, 853
Brayton-cycle space-power system, effect of turbine-coolant flow on performance, 12354
frost heaving, principles, 3815
measurements of nonequilibrium effects in air on wedge-flat-plate afterbody pressures, 2358
properties of—
arbitrary gas mixtures—
calculation of specific heats with tabulated results, 15158
calculation with modified vibrational-rotational corrections, 15156
chemical, selected values, tables, etc., elements 23 through 32 and compounds, 9553
methane burned products in oxygen-enriched air, 17891
vanadium and its compounds, 7706
ZnO-Fe_2O_3-Fe_3O_4 system, 9376, 12242
rational, principles and methods, French study, 4659
see also Heat transfer.
Thermoelasticity, plane thermoelastic deformation of internally heated annular disks or hollow cylinders, 4985
Thermoelectric generators, high-temperature radioisotope, for space applications, 9928
Thermoelectricity:
bonding study, 4824
thermoelectric properties of yttrium selenides and tellurides, 17860
Thermometers:
high temperature platinum resistance, description and drawings, 17941
low temperature solid state, disclosure on, 7921
Thermophysical properties of saline water systems, 12054
Thermoplastics, *see* Plastics.
Thermopolis, Wyo.:
Shoshone medicine man, colored poster with—
French text, 15410
Spanish text, 15409
Thermopotential measurements of alkali halides, 4927
Thermosphere, thermospheric structure, variations, 6416

Thermostats:
fin spacecraft temperature control, design considerations, 10966
solid state, has integral probe and circuitry, 9486
Thesaurus of DDC descriptors, 14524
Thesaurus of FAA descriptors, 4363
Thickness measurement, polymer deformation gauge measures thickness change in tensile tests, 7801
Thienothiophenes, presence in Wasson, Tex., crude oil, 12251
Thin-film gage measures low-heat-transfer rates, 9484
Thin-filmed semiconductor rectifier has improved properties, 4849
Thiokol Chemical Corporation, hydrotest failure of motor case, 4894
Thiophenes, *see* Butylthiophenes.
30 years of Cooperative Wildlife Research units, 7440
Thomas, Elsian, relief, 8710
Thomas, James A., ability of image interpreters to adapt output to varying requirements for completeness and accuracy, 12667
Thomas, John O., electron densities and scale heights in topside ionosphere, Alouette 1 observations, 10980
Thomas, Margaret, W., practice of nurse-midwifery in United States, 12732
Thomas, Richard E., principles and instrumentation for measurement of work-function variations by electron-beam scanning, 12424
Thomasson, Edwin M., helium, 15009
Thompkins, F. Vernon, water used in mineral industry of Alabama, 15033
Thompson, Bertrand J., numerical techniques, 13900
Thompson, Floyd L., address, Nov. 16, 1965, 9551
Thompson, George R., Signal Corps, the outcome, 10907
Thompson, Helen M., manual arts and crafts, 5321
Thompson, J. F., prediction of propellant tank pressurization requirements by dimensional analysis, 12344
Thompson, J. R., sharks, skates, ray [rays], and chimaeras, 4404
Thompson, Paul E., progressive fish-culturist, 3423
Thompson, Theo A., memorial services, 4033
Thompson, William C., dynamic-model investigation of some landings and slideouts of recoverable booster, 15141
Thompson, Cape, region, Alaska environment, 11432
Thor, *see* Missiles.
Thorium:
base alloys, fused-fluoride electrowinning, 10927
disposal from supplemental stockpile—
hearing, 10325
law, 10072
reports, 8587, 8755
minerals yearbook chapter, 13702
Thornberry, H. H., plant pests of importance to North American agriculture, index of plant virus diseases, 11346
Thorngate, J. H.:
neutron and gamma-ray leakage from Ichiban critical assembly, 12671
post pulse gamma-radiation spectrum, Operation BREN, 11420
Thorson, Curtis W., 2d-order astronomical position determination manual, 314
Thought-transference:
between Moscow and Novosibirsk, USSR study, 13563
pros and cons of existence of telepathy, USSR study, 14888
Thread mills, census of manufactures, 1963, industry statistics, 6892
Threaded pilot insures cutting tool alignment, 6400
Threaded split ring connector separates structural sections, 4877
Three-dimensional flow of ideal gas past smooth bodies, 11083
Three-dimensional yield criterion of C–ϕ material, 8240
307 Gilman Hall, some reminiscences, remarks, 5426
THREE-PEE sampling theory and program THRP for computer generation of selection criteria, 4473
Three-position rocker switch actuator has positive centering, 2395
Thresher (U.S.S.):
civilians who lost their lives aboard submarine, furnish memorial headstones or markers, report, 12970
Throughfall for summer thunderstorms in juniper and pinyon woodland, Cibecue, Ridge, Ariz., 6033
Thrust:
effects of applying on recovery from incipient and developed spins for 4 airplane configurations, 12341
finite-thrust escape from and capture into circular and elliptic orbits, 15194
low, interplanetary vehicles, optimal celestial-inertial navigation concept for, analysis, 10938
measurement of SERT–I ion thrustors, 9532
propulsion, combined high-low, for close solar probe mission, 2429
test of sublimating-solid micropropulsion system, 6432
vector orientation technique, simplified, for establishing lunar orbits, 6458
Thrustors:
colloidal particle, experimental application of charged carbon powder, 16703
electron bombardment, 5-centimeter-diameter, with permanent magnets, 15199
see also Ion thrustors.
Thunderstorms:
measurements of condensed water in Great Plains storms, 15421
summer, throughfall in juniper and pinyon woodland, Cibecue Ridge, Ariz., 6033
unitary vertical conduction currents as measure of activity for entire surface of earth, 2446
Thurston, G. A.:
buckling of cylindrical shell end closures by internal pressure, 13718
buckling of imperfect cylinders under axial compression, 15051
Thymidine, incorporation into DNA after irradiation, effect of pool size, 5329
Thyroid gland, bovine, measurement of iodine–131, 2535
TIAS series, 1494–1506, 2581–92, 3624, 5156–73, 6640–54, 8068–87, 9725–36, 11261–279, 12525–538, 14032, 15345–374, 16856–868, 18124–126, 18128
Tibbitts, Clark, address, Jan. 13, 1965, 1572
Ti-chih lun-p'ing (periodical):
translations, 10741, 12128–129, 12179, 13490, 14896, 16494
Ticks:
encephalitis virus carried by birds, USSR study, 9118
gamasid ticks, experimental infection with causative agent of anthrax, USSR study, 13454
national tick surveillance program, 14114
Tidal hydraulics, errata, 8860
Tidal waves, *see* Tsunami (tidal wave)
Tides:
current tables, 1966, Block Island and long Island Sounds, 11505
current tables, 1967, Pacific Coast of North America and Asia, 15638
Delaware River, record low, 13415

Tides—Continued
lunar-solar semi-monthly and monthly, in seas of Soviet Arctic, USSR study, 14796
tables—
central and western Pacific Ocean and Indian Ocean, 12764
Europe, west coast of Africa, and Mediterranean, 12765
North and South America—
east coast, 10005
west coast, 6987
variations, etc., and hydraulic computations, errata, 8860
Tien, Chi:
effect of melting on forced convection heat transfer, 6831
energy requirement for placing instrument package, under ice, 8236
Tighe, Charles, nomination hearings, 4215
Tijuana River:
flood control project, joint construction, agreement with Mexico, authorize—
hearings, 11656
law, 17132
reports, 5778, 12962, 15898
Ti-li (periodical):
translations, 2163, 2174, 4692, 7559, 7602
Ti-li hsueh-pao (periodical):
translations, 16402
Tiles, tile setters, employment outlook, 9216
Tillage, porosity and random roughness of interrow zone influenced, 9791
Tillman, Tom W.:
monaural versus binaural discrimination for filtered CNC materials—
impaired auditory mechanism, 15491
normal auditory mechanism, 5330
speech discrimination utilizing CNC monosyllabic words, etc., 15489
Timber:
California—
aerial stand-volume tables, 10580
harvest, 10612
cruises, sample sizes, 4447
cut in California, 1964, top utilization, 10575
cutting practices, need for effective controls in Pacific Northwest Region, Forest Service, GAO report, 16345
fuel-breaks and fuel moisture, 10582
Illinois, resources, 7463
management issues on Utah's north slope, 14712
management planning, reforestation and stand improvement projects on national forests, economic evaluation, 9813
Minnesota's third look, quality, trends, etc., 10611
national forest, measuring, in Pacific Northwest Region, GAO report, 7476
national forest sale accomplishments, 14697
northwest Oregon, situation and outlook, 4479
potential for intensive management on—
Spokane Indian Reservation, Wash., 10660
Warm Springs Indian Reservation, 13424
Yakima Indian Reservation, Wash., 10661
resource statistics for southwest Washington, 5999
standing, evaluating multiproduct potential, 4474
stumpage prices for sawtimber sold from national forests (periodical), 3545
Washington, 1964 harvest, 5998
windthrown, insect-caused deterioration in northern California, 1963–64, 2077
see also Hardwood—*also* names of timber trees.
Time:
constant involved in attention and neurol information processing, 9402
decoding problem, error dection and correction approach, 15145
Time—Continued
standard for calibrating cardiotachameters and biologic data recordings, 8210
uniform system throughout U.S.—
hearing, 5697
law, 8463
reports, 5678, 7089, 8573
see also Hours of labor.
Time delay, effects in visual feedback loop of man-machine system, 15063
Time dependent deflection of floating ice sheet, 15310
Time deposits:
and savings deposits, 10514
changes, 17660
control of time and savings deposits (address), 14623
higher reserve requirements—
hearing, 14476
law, 15764
report, 16131
insured banks—
eliminate unsound competition, hearings, 11645
temporary ceiling on interest rates, report, 12976
time deposits in monetary analysis, 2028
Time series:
economic—
spectral analysis and parametric methods for seasonal adjustment, 273
X–11 variant of census method II seasonal adjustment program, 271
periods difined by irregular observations, analysis, 9434
Time signals:
generator, battery-operated pilot balloon, 17693
standard services provided by NBS stations WWV, WWVH, WWVB, and WWVL, 9552
transistorized digital clock with serial binary-coded readout, 16765
Time study, gross job time studies, efficient method for analyzing forestry costs, 4450
Timing devices:
dutiable status of imports from insular possessions, amend tariff schedules, hearing, 13208
parallel line raster eliminates ambiguities in reading timing of pulses, 15116
Timeless and accuracy in sequential decision making task, 8274
Timers, ordnance, symposium, proceedings, 17979
Tin:
mineral industry surveys, monthly, 3576
nickel/tin coating protects threaded fasteners in corrosive environment, 2402
tin-lode investigations, Cape Mountain area, Seward Peninsula, Alaska, 6323
Tin isotopes:
scattering of alpha particles from even isotopes, 1252
errata, 6411
Tinker Air Force Base, Okla., civilian employees, relief, 1804
Tinsleya, new genus of seed-bearing callipteridi plants from Permian of north-central Texas, 14752
Tippens, Paul E., determination of temperature and material effects on high-velocity impact craters in ablative heat-shield materials, 16689
Tipton, C. L., human vs filter as data extrapolator in 2-coordinate, sampled-data tracking system, 6543
Tire hydroplaning, *see* Hydroplaning.
Tires:
advertising and labeling guides, adopted by Federal Trade Commission, 14647
aircraft, force-deflection characteristics, 9413
cord and fabrics, current industrial reports, 2818

Tires—Continued
excise tax, impose at manufacturer-owned retail outlet, hearing, 16184
Federal item identification guides for supply cataloging, supplements, 2932
motor vehicle—
safety and labeling regulations, hearings, 1930
safety standards, establish, report, 8726
performance of sand under tire loads, WES data, dimensionless consolidation, 4336
performance of soils under tire loads—
analysis of tests in sand, 10445
test in clay, 8865
pneumatic, single, performance of on wet surface soils, 4341
used motor vehicle, rebuilding, savings that can be attained, GAO report, 12008
TIROS (television infrared observation satellite), *see* Satellites.
Tissues:
elastic recovery principle for expandable airlock, research, 4811
fractionation and analysis, zonal centrifuges and ancillary systems, development, 15289
preservation and homotransplantation, USSR study, 4667
transplantation, excerpts from Russian-language book, 7594
viable human, processing and storage, 16808
see also Chimeras.
Titanium:
alloy plate and forgings, fracture-toughness, 1355
alloys—
fracture toughness characteristics for deep-diving vehicles, 1362
honeycomb structures, USSR study, 16424
mechanical and engineering properties, USSR study, 13502
properties and fabrication, review of Govt. research and development reports, 11093
properties, treatment and production, USSR studies, 14814
salt stress corrosion of residually stressed Ti–8A1–1Mo–1V sheet, 7837
Soviet research, 9187
treatment and properties, USSR studies, 6204
aluminum alloys in vacuum, friction, wear, and adhesion characteristics, 4969
casting, graphite molds for, barrier coatings, investigation, 6538
crystalline, by sodium reduction of titanium lower chlorides dissolved in sodium chloride, 16572
fractographic analysis of Ti–7A1–2Cb–1Ta and Ti–6A1–4V fractures developed in wet fatigue, 12423
ingot and mill products, current industrial reports, 2817
mineral industry survey, quarterly, 3577
physical metallurgy, 1283
sublimation pump produces ultrahigh vacuum, 15118
Ti–8A1–1Mo–1V sheet, fatigue behavior, 1190
United States, resources, 13677
Titanium borides:
diborides—
chemical reactions and bonding in these compounds, 13836
in pseudobinary system TiB_2-CrB_2, electrical properties, 1162
Titanium diborides, *see* Titanium borides.
Titanium dioxide:
from Japan, determination of no injury to U.S. industry, 11289
from West Germany manufactured by Farbenfabriken Bayer, A.G., notification on investigation, 8096
Titanium oxides, suboxides, USSR physical-chemical studies, 9087
Titanium suboxides, *see* Titanium oxides.
Title insurance, purchase on properties acquired in Florida under VA loan guaranty program, GAO review, 12004
Titran, Robert H., ultrahigh-vacuum creep behavior of columbium and tantalum alloys at 2000° and 2200°F, 4960
Titration, *see* Volumetric analysis.
Titrimetry, *see* Volumetric analysis.
Titulo 1, prestamos para la mejora de la propiedad, 8899
Titus, James W., analysis of friction torque in simple and preloaded spur gear trains, 6542
Titus, Joan B., trade designations of plastics and related materials, 8815
Tobacco:
acreage allotments, additional time to file leases—
law, 11580
reports, 10222, 11765
ASCS programs, 6730
burley—
acreage-poundage, referendum, 5295
light air cured, market review, 1965 crop, 13238
commercial farms, costs and returns—
Bluegrass area, Ky., 14531
North Carolina, coastal plain, 10412
crop summary, 3579
flue-cured—
acreage-poundage program, report on operation, 7109
market review, 1965 crop, 7241
foreign agriculture circulars, 2987
import duties in free countries, 1957–65, changes, 8948
industries, 1965, statistics, 6068
market review, 1965 crop, fire-cured and dark air-cured, 11836
products, census of manufactures, industry report, 1702
program, problems, hearing, 11635
statistics, 8168
stocks report, 3581
tax guide, 863, 2129, 3582, 4572, 7522, 10682, 17744
tobacco situation (periodical), 3580
U.S. cigar leaf, changed market, 14540
U.S. imports and European common market, study, 5680
Tobago, *see* Trinidad and Tobago.
Todd, Frederick H., and wife, relief, 374
Todd, James A., jr., relief, 16035, 17180
Todosiev, E. P., human tracking, performance in uncoupled and coupled 2-axis systems, 15045
Togliatti, Palmiro, commemorative articles, translations, 976
Togo:
amity and economic relations, treaty—
message from the President, 13076
report, 16001
gazetteer, official standard names, 13391
mineral industry, minerals yearbook chapter, 9362
Toilet articles:
census of manufactures, 1963, industry report, 5442
Federal item identification guides for supply cataloging, supplements, 2939
trade practice rules for industry, 11960
Toiletries, *see* Toilet articles.
Toinette, Ala., accident, 2141
Tokyo, Japan:
Foreign Service buildings programs, report, 5637
U.S. Trade Center, 14783
Air Conditioners and Dehumidifiers Show, July 22–30, 1965, registered visitors, list, 10021
Tolbert, Gene E., uraniferous zirconium deposits of Pocos de Caldas Plateau, Brazil, 13395

Toledo, Ohio:
area wage survey, metropolitan area, 10868
commodity transportation survey, production area series, 9955
principal electric facilities, map, 7875
Toler, Raymond M., patent, trademark, industrial design and copyright protection in Australia, 345
Tolerance (engineering):
depth indicator and stop aid machining to precise tolerances, 9463
etching process mills PH 14–8 alloy steel to precise tolerances, 10984
Tolliver, Wayne E., NIH obligations to institutions of higher education, 12478
Tolls, relations to Federal-aid highway program hearings, 14440
Tolson, Robert H., error analysis of weighted least squares process to determine lunar gravitational field, 17923
Tomatoes:
color changes and chilling injury at various temperatures, 11356
controlling tomato diseases, 11350
Tombstones, civilians who lost their lives aboard U.S.S. *Thresher*, furnish headstones or markers, report, 12970
Tomlinson, Helen, classification of information topics by clustering interest profiles, 5323
Tomlinson, Roy E., mourning dove status report, 10538
Tonan Aija kenkyu (periodical):
translations, 927, 942
Tonnage, gross and net, of shelter deck vessels, measurement, provide, hearings, 10335
Tool kits, special design for heavily garmented workers, 16626
Toolrooms, layout plates, industrial plant equipment handbook, 8804
Tools:
alignment, facilitates pin placement on irregular horizontal surfaces, 16633
cork is used to make tooling patterns and molds, 13763
diamond, disposal from national stockpile, hearings, 11643
portable—
cleans pipes and tubing, 2394
removes burrs from pipe and tubing, 1235
pre-tensions covers prior to lacing, 13737
separates sleeve-type unions without heat, 11043
soldering, heats workpieces and applies solder in one operation, 10987
tool enables proper mating of accelerometer and cable connector, 9498
woodworking, 12396
see also Cutting tools—Hand tools—Machine tools—Measuring instruments—Power tools—Swaging tools—*also* names of tools.
Toombs, George L., radiological survey of lower Columbia River in Oregon, Aug. 1963–July 1964, 2537
Tooth, *see* Teeth.
Topakas, Emanuel G., relief, 10117, 14340, 16030
Topographic maps, *see* Maps and charts.
Topographic surveying, *see* Surveying.
Topography:
grouping sites by soil management areas and topography, 13362
site index of yellow poplar, 17701
spectrosonal aerial photographs for topographic interpretation, USSR study, 14900
topographic instructions, 10646
Topwood volume tables for old-field slash pine plantations, 5987
Torches, oxygen-hydrogen, use as steam generator, 9460
Tornadoes:
assistance for reconstruction of areas damaged in Kansas, hearing, 11792
general description, 12564
general information, note, 1538
keeping tornado watch, 7004
Toroids:
calculation of admittance of parallel plate capacitor containing toroid-shaped sample, 13867
filament wound, use as pneumatic shock absorbers, 15071
superconducting, magnetic torque, 16771
Torphy, Daniel E., effects of immersion, recumbency and activity on othostatic tolerance, 11378
Torque:
electromagnetic, on spherical earth satellites in rarefied partially ionized atmosphere, 6471
friction, in spur gear trains, analysis, 6542
gravity gradient, effect on motion of spin axis of asymmetric vehicle, 9407
magnetic, of ideal superconducting toroids, 16771
requirements for orientation of solar Brayton system in earth orbit, 2427
shaft, noncontacting transducer measures, 6374
Torque bolts, *see* Bolts and nuts.
Torque motors, brushless d.c., final report, 4829
Torque wrenches, *see* Wrenches.
Torsion, *see* Strains and stresses.
Tort claims, *see* Claims.
Tortricidae, *see* Microlepidoptera.
Torus elements used in effective shock absorber, 13753
TOS, 13852
Totem poles:
Haida Indians, Saxman, Alaska, colored poster with—
French text, 15407
German text, 15405
Spanish text, 15406, 15408
Totempfahl der Haida-Indianer Saxman im Staat Alaska, 15405
Touch, babies touch, taste, and learn, guide for parents, 6771
Tourism:
international, air transportation and economic development, important facet of commerce (remarks), 15612
new directions for promoting international balance of payments (remarks), 17062
Tourism, *see also* Tourist trade.
Tourist courts, *see* Motor courts.
Tourist trade:
inclusive tours by supplemental air carriers and tour operators, CAB special regulations, 8382, 14288
outlook (remarks), 354
plant tours for international vistors to U.S., 6684
Tourists:
handicapped, guide to national parks and monuments, 17805
tour planner maps, travel a new world, see U.S.A.—
German edition, 14062
Portuguese edition, 14054
see also Visitors.
Touro Synagogue National Historic Site, general information, 1335
Towels, current industrial reports, 263
Tower, Leonard K.:
desorption kinetics of multiple adsorbates, cesium with fluorine on molybdenum and tungsten, 15187
erected dipole model in adsorption of cesium on fluorinated molybdenum, 4961

Towers:
airport traffic control, at low-activity airports, savings by use of conventional design, GAO report, 12007
triangulation, Bilby steel tower, 5529
Town, Joseph W.:
effects of certain mineralogical features on phosphate recovery, 9372
petrographic and flotation studies on Meade Peak, Idaho, phosphate samples, 9374
Towns, *see* Cities and towns.
Townsend, Alair A., statistics on public institutions for delinquent children, 3947
Townsend, C. L., control of cracking in mass concrete structures, 1451
Townsend, James C., effects of leading-edge bluntness, etc., on laminar boundary-layer separation in hypersonic flow, 6454
Townshend, Jesse F., jr., airman, official journal, 2669
Toxaphene, piscicide for fish control, 11977
Toxicants, *see* Poisons.
Toxicity, *see* Poisons—Soman.
Toxicology:
chemicals used in agriculture, USSR symposium, 967
combined effects of pesticides, USSR study, 920
information handling, report, 12455
new industrial chemicals, USSR study, 901
propellant fuels, boron hydrides, 14188
Toxicosis, food toxicoses and toxic infections, 17789
Toxins, toxic substances used in industry, effect on living organisms, 1016
see also Anatoxins—Biological products—Endotoxins.
Toxoplasmosis, intralaboratory infection, 2 cases, USSR study, 6145
Toya, Theodora, *see* Bezates, Theodora.
Toys:
census of manufactures, 1963, industry report, 3906
market in—
France, 347
Italy, 7006
Trace elements, experimental and clinical medicine, USSR studies, 16396
Tracer studies:
krypton-85, development as universal tracer, 8289
radioisotope process control, large volume detectors, evaluation, 8276
Trachoma, prevalence in Republic of Vietnam, 4628
Tracking:
Apollo infrared acquisition and tracking system, 16649
atmospheric, errors at S- and C-band frequencies, 13811
critical tracking tasks for human pilot, 6430
human performance in uncoupled and coupled 2-axis systems, 15045
parameter tracking systems, research, 9425
satellites, and data acquisition, 7750
sensitivity of short-period tracking data from lunar satellite to lunar gravitational field harmonics, 1271
system and acoustic ray ship positioning, 6545
two-coordinate, sampled-data system, human vs filter as data extrapolator, 6543
see also Radar tracking.
Tracking stations:
agreement with—
Australia, 11265
Malagasy Republic, 16857
Spain, 5166
Tractors:
automobile mechanics, apprenticeship standards, 11388
current industrial reports, 2817
Federal item identification guides for supply cataloging, supplements, 2932
production to begin at Pavlodar plant, USSR study, 9152
USSR industrial development, translations, 3669
Trade, *see* Commerce—Retail trade—Service trades—Wholesale trade—*also* names or classes of commodities.
Trade agreements, *see* Commercial treaties.
Trade centers:
U.S., Frankfurt, London, Milan, Stockholm, Bangkok, Tokyo, 14783
U.S., Tokyo, Japan, Air Conditioners and Dehumidifiers Show, July 22–30, 1965, registered visitors, list, 10021
Trade designations, *see* Trademarks.
Trade Development Corps, establish, hearings, 1929
Trade expansion act of 1962, *see* Commercial treaties.
Trade fairs, *see* Fairs.
Trade marks, *see* Trademarks.
Trade missions, U.S. space industry trade mission on European aerospace industry, report, 4576
Trade names, *see* Business names.
Trade Negotiations, Office of Special Representative, *see* Special Representative for Trade Negotiations.
Trade policy, *see* Commercial policy.
Trade practices:
rules—
cosmetic and toilet preparations industry, 11960
proposals, 3424
Trade unions, *see* Labor unions.
Trademarks:
Australia, protection, laws, etc., 345
code of Federal regulations, 10506
Colombia, protection, laws, etc., 14826
decisions, weekly, 3288
general information, 12445
index, 11167
lists in official gazette, 3288
plastics and related materials, 8815
publications, price list, 5099
rules of practice with forms and statutes, 17987
Trades, *see* names of trades and types of workmen.
Tradevman, 3 & 2, Navy training course, 1347
Tradewinds project, *see* Project tradewinds.
Trading with the enemy:
act, amend—
law, 17117
reports, 15921, 16154
administration of act, investigation—
extension, report, 10295
report, 5780
Traffic:
carload waybill statistics, 1963—
agricultural products, 7532, 7535
all commodities, 6080
animals and products, 6081
commodity classes, 6084
forest products, 6083
manufactures and miscellaneous and forwarder traffic, 6082, 7531
mileage block progressions by commodity groups and classes, 10695
mine products, 7533, 7536
international maritime, convention on facilitation, 13086
police supervision, highway safety action program, brief outline, 11205
safety act of 1966 (remarks), 10040
St. Lawrence Seaway report, 8014
see also Air traffic—Safety of life—Transportation.

Traffic control, interlocking systems, installation, maintenance, and repair, rules, standards, and instructions, 16385
see also Air traffic.
Traffic decisions, *see* Interstate Commerce Commission.
Traffic managers, *see* Managers.
Traffic safety, *see* Safety of life.
Traffic Safety, President's Committee for, *see* President's Committee for Traffic Safety.
Traffic signals, *see* Signal systems.
Traffic signs, *see* Signs (traffic).
Trafficability:
peat as affected by snowpack and surface mosses, 5981
tests on confined organic terrain (muskeg), summer 1962 tests, 5890
Trailblazer, *see* Rockets.
Trailers:
current industrial reports, 2817
Federal item identification guides for supply cataloging, supplements, 2932
mobile homes, bibliography, 2556
truck, current industrial reports, 12723
Train control devices, installation, maintenance, and repair, rules, standards, and instructions, 16385
Trainee's guide for communications yeomen, class A, 2489
Traineeships:
grants for advanced training of allied health professions personnel—
hearings, 10249, 17591
reports, 10225, 15841, 17535
professional health personnel under public health program, 5119
Trainers (devices), *see* Training devices.
Training:
adaptive, computer based, applied to symbolic displays, 11154
adult and vocational research, training, and experimental programs, 633
Army aviation, prediction of success, 3843
automotive service specialist, training course guide, 634
cadres, USSR study, 10720
civil defense literature, list, 7996
Civil Service Commission activities, hearing, 17379
compendium of programs, 10018
cuing techniques, 7971
defense logistics management training catalog, change, 8796
economic opportunity act, press reports, 13303
educational research program, guidelines, 644
enactments by 89th Congress, 1st session, 7227
Federal, job training programs, that provide jobs, 7640
health service workers—
critical challenge, conference proceedings, 14759A
job development, 14759
health services for mentally retarded, 279
how to instruct trainees on job, instructor's guide, 9881
Indian teen-agers, technical fields, opportunities, 13425
industrial technology, non-credit educational programs, compendium, 10018
job training suggestions for women and girls, 2632
leadership, career in Office of Education, 17627
legislation approved, 7133
major programs providing Federal funds for employment and training, 9944
manpower development and training act of 1962—
absences of trainees in programs, GAO report, 8903
amendments of 1966—
hearings, 13031, 17592
reports, 15906, 17525
Training—Continued
manpower development— continued
guidelines for research grants, 16513
Lorton Youth Center program, chance on the outside, 11867
public assistance recipients, training, 10842
trade unions and MDTA, 10845
manpower development and training program—
act, summary, 4696
Chicago, Ill., training facilities, selection, etc., GAO report, 12006
comparison of 1963 and 1964, 2283
employer's guide to on-the-job training, 1631
report of Secretary of Health, Education, and Welfare Department, 9026
report of Secretary of Labor, 7646
manual for dictionary of occupational titles, 666
materials and aids in vocational rehabilitation services, development and use, 9760
mentally retarded, design of facilities, 16800
needs in correctional institutions, 12197
occupational education and training, Federal-State programs, 6768
operator course—
communications radio teletypewriter, 5365
power generator equipment, Army pamphlet, 6838
practice effects, knowledge of results and transfer in pitch discrimination, 11155
pre-employment, safety guide, 17625
programs—
Bulgarian, improving for computer equipment, 16507
National Institute of Mental Health, general information, 9561
psychiatric-mental health trainee stipends for nurses, 11110
public health traineeship program awards to individuals, 5102
report of Committee on Education and Training, National Citizens' Commission, 1545
responsibility for work improvement, 5147
service occupations, under manpower development and training act, 7642
team training—
laboratory research, 12421
research in CIO-type environment, 5066
training + visits, program for supervisors, guide in employment of the handicapped, 10851
unemployment and retraining, annotated bibliography of research, 2285
youth, industry practices and policies, 1540
see also Education—Employee training—Job analysis—Military education— Naval education—Vocational education—*also* subjects.
Training aids, *see* Training devices.
Training cards, classroom, extend special 4th class postage rates, hearing, 523
Training devices:
and aids, Federal item identification guides for supply cataloging, supplements, 2940
consideration of training functions during design of operational equipment, handbook, 5067
electronic trainer by laboratory for sports cybernetics, USSR study, 6164
gas hazards trainer, maritime safety data, 16520
tactical decision making, functional requirements, 7970
Training of employees, *see* Employee training.
Trains, *see* Railroads.

Trajectories:
- above-surface, attenuation of radiation from artificial earth satellites, USSR study, 14890
- aircraft, minimum time between 2 points in range-altitude space, 17882
- data, Earth to Jupiter, Ceres, and Vesta, 9445
- double-conic interplanetary, optimization, 4932
- finite-thrust escape from and capture into circular and elliptic orbits, 16675
- generation of random sample-covariance matrix, 4951
- look-angle-prediction technique for artificial earth satellites, 12431
- low-thrust, propellant requirements, 7895
- Mars, round-trip, minimum propellant consumption for vehicles, 4967
- multistage boost, explicit guidance equations, 4936
- optimization by fast-time repetitive computations, 9529
- separation characteristics resulting from separating 2 vehicles in near-earth orbits, 2406
- simplified calculation of transition matrices for optimal navigation, 11068

Tranquilizing drugs:
- effects on orientation and conditioned defense reflexes, USSR study, 948
- influence of tranquilizer on temperature regulation in man, problems in aviation personnel, 15556
- pharmacologic side effects, 5325

Trans World Airlines, Inc., emergency board report, 13284

Transducers:
- acceleration-compensated pressure transducer has fast response, 13788
- direct force-measuring, used in blood pressure research, 2376
- electromechanical, bibliography, 6359
- electropneumatic, automatically limits motor current, 7806
- force measuring in vacuum environment, 7807
- loading effects on ultrasonic transit time measurements, evaluating method, 1366
- noncontacting, measures shaft torque, 6374
- noncontacting vibration transducer has constant sensitivity, 4885
- pressure—
  - dynamically tested with sinusoidal pressure generator, 4868
  - transmission system isolates from severe environment, 6390
- special mount improves remote transducer accuracy, 4858
- temperature, has high output, is time stable, 1237
- ultrasonic, phase-locked-loop control for driving, 15174
- vibrating diaphragm pressure transducer, 15082

Transfer function analysis of fluid contained in longitudinally excited thin-wall cylindrical tank, 16692

Transfer function approximations for large highly coupled elastic boosters with fuel slosh, 9433

Transfer of heat, *see* Heat transfer.

Transformations (mathematics):
- derivation of mapping functions for star-shaped regions, supplement, 7721
- kinematic transformations of several mechanisms, 12270
- Laplace-Galois transform in theory of series machines, USSR study, 9154
- Laplace-Galu transformation in theory of sequential devices, USSR study, 10767
- Laplace transforms and radial heat equation, 2361
- unitary, application to 4th order perturbation theory, 9543

Transformations (metallic):
- glass-crystal, nepheline and wollastonite, 10922

Transformers, *see* Electric transformers.

Transistorized building blocks for data instrumentation, 13863

Transistors:
- base-collector junctions, vapor grown silicon dioxide improves, 6407
- circuit increases range of logarithmic current amplifier, 13785
- damage to field-effect transistors under proton bombardments, 17915
- design effects on radiation resistance, 15075
- digital clock with serial binary-coded readout, 6765
- field effect, comparator detects analog signal levels without loading analog device, 11018
- insulator-holder protects transistors in dense electronic assemblies, 4882
- leads, jig protects from heat while tinning, 11032
- metal oxide silicon, protected from damage by wire device, 16639
- parallel chopper circuit for improved performance, 7772
- reliability of low-power low-frequency types P13 through P16, USSR study, 6234
- substituting transistor for diode improves rectifying means, 13733
- unijunction, electron radiation effects, 13714

Transit system, *see* Local transit.

Translating and interpreting, interpreting for deaf people, report of workshop on interpreting, Governor Baxter State School for Deaf, Portland, Maine, 14069

Translating machines:
- English machine-grammar, constructing, USSR study, 16448
- foreign developments, translations, 2154, 2988
- scientific documentation sponsored by NSF, price list, 7912

Translations:
- Cold Regions Research and Engineering Laboratory, 11891
- cooperation, etc., among information systems, literature review, 11091
- Joint Publications Research Service, catalog, 13447
- National Institutes of Health library—
  - index, 1965 supplement, 13977
  - selected list, 3455
- price lists, selective bibliography of Government translations, 3989
- special foreign currency science information program, 1965 list in process, 6978–79
- technical, National Aeronautics and Space Administration, 1281–86, 2439–48, 4987–5001, 6473–74, 7899–7902, 9545–48, 11082–83, 12374–376, 13849–850, 15203, 16710
- technical translations, bibliography (periodical), 3574

Transmission lines, *see* Electric lines.

Transmission of diseases, *see* Contagion and contagious diseases.

Transmission study for tandem-rotor shaft-driven heavy-lift helicopters, 138

Transmissions:
- phase-front distortion in simulated earth-to-space transmissions, 17942
- system isolates pressure transducer from severe environment, 6390

Transmitters:
- automatic transmission installation for meteorological data, East German study, 1039
- battery-operated pilot ballon time-signal generator, 17693

Transmitters—Continued
Bod, Rumania, Long Range broadcast, 12147
radio transmitting set AN/WRT-2, programmed-instruction maintenance course, 13908
radio transmitting set AN/WRT-2, programmed-instruction maintenance course, 12418
USSR all-Union scientific session devoted to radio day, 14940
Transonic aerodynamic characteristics of tailless fixed-wing supersonic transport model, 7810
Transonic pressure distributions over protuberances and adjacent areas in proximity to nose of launch vehicle, 7821
Transonic speed *see* Air speed.
Transpiration, plant, 1963 research, 11366
Transplantation (physiology):
bone marrow transplantation, USSR study, 4608
experimtenal organ and tissue transplantation, excerpts from Russian language book, 7594
human and animal hearts, restoration of contractility and prospects for transplantation, 4996
errata, 7899
tissues, preservation and homotransplantation, USSR study, 4667
Transplants, *see* Grafting (physiology).
Transport aircraft, *see* Aircraft.
Transport airplane, *see* Airplanes.
Transport equations, *see* Equations.
Transport phenomena in ionized gases as initial value problem, 15062
Transport pilots, *see* Aviators.
Transport properties:
high-temperature gas, evaluation, 17873
ion exchange membranes, 4553, 17738
ionizing atomic hydrogen, 9506
nitrogen-oxygen system, 7851
products of methane burned in oxygen-enriched air, 17891
Transport vehicles, *see* Vehicles.
Transport Workers Union of America, AFL–CIO, emergency board report, 17628
Transportation:
air—
future for Puerto Rico (address), 3949
importance (remarks), 6950
improve service, etc. (remarks), 5508
industry, 1947–64 indexes of output per employee, 14969
military airlift—
hearings, 10230
special subcommittee report, 10231
New England area, improvement needed (address), 8376
shipments of agricultural commodities, recent trends and prospective developments, 7286
small business, role in industry, hearings, 14412
spectacular rise to top of travel market (remarks), 1743
supplemental, terms, conditions and limitations of certificates to engage in, economic regulations, 6945, 14284
technological improvements (address), 330
trends in transport regulation (remarks), 3959
airlift of National Guard personnel and equipment, operations pamphlet, 1306
and safety (remarks), 8440
area system for Northeast Corridor project, description, 8428
Armed Forces members' deceased dependents at Government expense, amend U.S. Code, report, 1920
Army regulation, 8232
Transportation—Continued
Bulgarian Scientific Research Institute of Transport, achievements, 13526
census, 1963—
advance and/or preliminary reports, production area series, 6919, 8339–47, 9952–59
commodity transportation survey, commodity groups, 16998
final volumes, 3908, 16998
preliminary report, commodity transportation survey shipper series, 212–222, 3909, 5452–53
publication program, 12703
truck inventory and use survey, 3908
challenge of future development (remarks), 10039
code of Federal regulations, 7415, 10503–504, 11943
commercial air transportation for service personnel on authorized leave, hearings, 17363
Communist China, translations, 3599
coordination of transportation planning and other development programs (remarks), 8437
defense depot transportation and supply procedures, manual, 608
defense traffic management handbook, 607
demands of our Nation (remarks), 4746
Department of Transportation, establish (remarks), 8438
domestic shipping industry, economic effectiveness through improvement of inland waterways, etc. (remarks), 349
economics, monthly comment, 3619
equipment—
census of manufactures, 1963—
industry statistics, 8338
manufacturing plants, location, 15574
except motor vehicles, commodity transportation survey, shipper series, 222
facilities, Tulsa, Okla. (remarks), 1778
Federal agencies, GAO guidance manual, 3015, 10617
foster sound, economical and adequate transportation policies and practices (remarks), 350
future U.S. needs, 6349
grain in southwestern States, 1960–62, by rail and truck, 3771
grain, losses by grain marketing cooperatives, 14143
gravity model for any size urban area, calibrating & testing, 5128
high speed ground—
program (remarks), 10037, 10042
research and development, report, 1918 to Dulles International Airport, etc., study, report, 13153
household goods of Federal employees assigned to isolated duty stations, reimburse—
law, 15706
reports, 503, 8548, 13143
improvement through government planning (remarks), 4018
industry and economic growth (talk), 8443
industry, reviews (remarks), 1775
intermodal, cargo moving in ocean foreign commerce, legal barriers (remarks), 1434
international waterborne, convention of Mar del Plata, 13085
lines—
Atlantic, Gulf, and Pacific Coast, 7330
Great Lakes system, 14574
marine industry, new impetus in containerization (remarks), 4378
marketing and transportation situation, 3183
mass, legislation, hearings, 10329
migratory birds, Alaska, 1966–67, Federal regulations governing, 14673

Transportation—Continued
Missouri-Kansas compact on public transit for Kansas City area, approval—
law, 15766
reports, 13159, 17223
motor vehicle accident victims, 5130
motor vehicles of members of Armed Forces, at Government expense, amend U.S. Code—
hearing, 14409
report, 12938
moving household goods, information for Navy personnel, 11155A
moving, reasons, Mar. 1962–Mar. 1963, population characteristics, 14271
National Capital region, District of Columbia, participation in planning, authorize, hearings, 1936
National Transportation Week program (remarks), 10041
northeast Corridor project—
remarks, 12789
technical paper, 8428
ocean—
costs for donated surplus agricultural commodities under titles 2 and 3, agricultural trade development and assistance act of 1954, GAO report, 7472
freight rates, Action Committee report, 7005
parochial school students and religious freedom, State laws, 16241
planning in District of Columbia, hearings, 7131
privately owned vehicles on foreign-flag vessels, Military Sea Transportation Service, GAO report, 9004
proposed legislation (remarks), 11522
publications, price list, 6568
railroads—
facilities, Army technical manual, 5373
telegraph communications, USSR study, 16400
research and development (remarks), 1776
research for improvement is government goal (remarks), 5557
safety, urban congestion and cost reduction (remarks), 4024
savings through improved utilization of space available on administrative military aircraft, GAO report, 14731
schedules, urban passenger, compiled on electronic computers, USSR study, 2186
services at continental U.S. installations, Army technical manuals, 9911, 15521
Soviet, translations, 3614
specialized equipment, savings through buying instead of leasing, by Air Force Dept., GAO report, 8989
statistics in United States, 874, 3620, 4585, 6101, 9059, 10699, 12087
subsurface methods in deep snow, 8246
support demands made upon our system (remarks), 4025
technological advances throughout all modes, 348
transportation series, Engineer Corps, 7330, 14574
traveltime period for retirees, discharges, etc., extend—
law, 17146
report, 17510
urban efficiency of street systems and problem of congestion (remarks), 2547
urban mass transportation amendments of 1966—
law, 15740
report, 13183
USSR, new directions in Soviet economy, 12845
see also Air carriers—Motor carriers.
Transportation Corps, Army, transportation services at continental U.S. (CONUS) installations, technical manual, 9911, 15521
Transportation Department:
create (remarks), 8438, 10040, 15654, 17060
establish—
hearings, 8774, 10246, 10346, 11809, 13040, 13212
message from the President, 5617
reports, 11634, 12973, 16158, 17291
Transrotor engine, 17941
Transuranium elements, development, 25 years after plutonium (remarks), 9934
Trapped radiation, *see* Van Allen radiation belts.
Traps, *see* Animal traps—Pollen traps.
Traumas, *see* Injuries—Radiation injuries.
Travel:
allowances—
employees assigned to Nevada test site of AEC, law, 7047
uniformed services members, reimburse for cost of parking fees, ferry fares, and bridge, road, and tunnel tolls, reports, 11628, 12922
Arctic regions, energy cost, 3783
Army regulation, 8252
authorizations—
Public Works Committee, House, reports, 15904–905, 17299
Veterans' Affairs Committee, House to Philippines and South Vietnam report, 8601
automotive, by Federal employees, cost reductions through use of Govt.-owned vehicles, GAO report, 14730
controls, proposals, hearings, 14496
directions, U.S.A., entry, travel, shopping, etc., 5201
Dutch edition, 15411
French edition, 15404
Spanish edition, 15403
expenses, rules for deducting from income tax, 2123
FHA handbook, FHA manual, 13320
foreign nationals in USSR, regulations governing, 14847
errata, 17750
Government employees on official business, time compensation, hearings, 5704
health information—
Africa, including Malagasy Republic and neighboring islands, 12470
Asia, Australia and New Zealand, 6579, 16795
Europe, 11183
Mexico, Central and South America, and Caribbean, 11184
information on U.S.A. for visiting students, 5202
international, immunization information, 1425
joint regulations—
Defense Dept., civilian personnel, 614, 3098
uniformed services, 1962
market in Great Britain for travel to U.S., main findings of study, 1527
new world, see U.S.A., tour planner maps—
German edition, 14062
Portuguese edition, 14054
passenger, between U.S. and foreign countries, 3467, 7505, 12038
pivotal element in international balance of payments picture (remarks), 17062
plant tours, international visitors to U.S., 6684
reemployment leave benefits granted civil service employees, GAO report, 8998
regulations, Senate, 8790
right of citizen, study, 17378
travel a new world, poster series, 14055, 14058, 15405–410
German text, 14056, 14059
Portuguese text, 14060
Spanish text, 14057, 14061

Travel—Continued
triangle, travel agents, airlines and Civil Aeronautics Board (remarks), 15616
trip desire contour chart data preparation, electronic computer program, 5127
veterans, prepayment of certain expenses—
law, 11564
reports, 4086, 11747
see also Air carriers.
Travel agents, small business role in air transportation agency, hearings, 14442
Travelers, foreign currencies, instructions on use, 16987
Traveling wave-masers, *see* Masers.
Trawlers, Boston large-trawler labor force, economic study, 10528
Trawls and trawling:
bottom trawling surveys of northeastern Gulf of Alaska, 4406
Cobb pelagic, construction and operation, 4408
Trays, pole beans, prepackaging, 8129
Treasury certificates of indebtedness:
4⅞ percent, series A–1966, 5192
5¼ percent, series A–1967, 16880
Treasury Department:
appropriations, 1967—
hearings, 7115, 10322
law, 15699
reports, 8598, 11625, 13122
bulletin, 3622
code of Federal regulations, 7400
daily statement, 2829
decisions—
annual, 6680
weekly report, 3623
department circulars, 5191, 6674, 8100–1, 9746–47, 11295–299, 12546–547, 14047–50, 15393–397, 16877–881, 18131
public debt series, 1512, 5192, 6675, 8102, 14051, 16880–881
exchange service for U.S. government personnel, suspension, GAO report, 810
foreign exchange operations, 7421, 17663
general information, 6681
law enforcement agencies, career opportunities, 5196
management improvement progress report, 2616
policies and practices, hearing, 17368
policies, etc., applied in evaluating foreign source components and barter bids for undersea cable communications system, GAO report, 4506
press releases, 3409
report, 1965—
departmental edition, 12545
document edition, 11598
report on private foundations, written statements by interested individuals and organizations, 1873, 1877
sale of U.S. obligations directly to Federal reserve banks, extend authority—
law, 12821
reports, 11748, 15840, 15845
standard silver dollars held in Treasury, authorize sale to American Cancer Society and American Heart Association, hearings, 14414
Treasurer of United States financial statements, 1964–65, GAO examination, 17706
use of dollars rather than foreign currencies to pay U.S. expenses in Korea, GAO report, 812
working capital fund, establish, report, 17305
Treasury notes:
4¼ percent, series D–1967, 1512
4⅛ percent, series E, 8102, 14051
5 percent, series A–1970, 6675
5¼ percent, series A, 16881
payable in foreign currency, report, 17521
Treaties:
general interest, summary, 89th Congress, 539
in force, list, 6655
treaties and other international agreements, 12540, 14033
admissibility in evidence—
law, 12824
reports, 5656, 16082
Warsaw Pact, role in Soviet bloc affairs, 10351
see also Commercial treaties—North Atlantic treaty—*also* names of countries—*also* subjects.
Treaties and other international acts series, 1494–1506, 2581–92, 3624, 5156–73, 6640–54, 8068–87, 9725–36, 11261–279, 12525–538, 14032, 15345–374, 16856–868, 18124–126, 18128
Tree nuts, *see* Nuts.
Tree planting:
hardwoods in saturated soils, survival and 1st-year growth, 16335
tree planters' notes, 2081, 6000, 8979, 10615
windbreaks for central Great Plains—
established plantings, how to manage, 4491
how to prepare land and plant trees, 4488
new tree plantings, how to maintain, 4489
Trees:
diameter growth and phenology on sites with high water tables, 2073
evaluating growth performance of young stands, 16324
forest—
Lake States, 1965, improvement research, 10596
nurseries, location, ownership, shipments, etc., 8979
species compared in Ozark plantations, 4460
how a tree grows, poster, 7456
marking system, improves forest spraying operations, 8952
shade and beauty, selection and care, 12603
silvics of forest trees of United States, 29
undesirable, removing from hardwood stands, 10558
windbreaks for central Great Plains—
how to arrange and space, 4487
how to select, 4486
how to use to protect land and crops, 4485
see also Christmas trees—Forest planting—Hardwoods—*also* names of trees.
Tremaine, Marie, Arctic bibliography, 5841
Trematodes, *see* Flukes.
Tremmel, Ernest B., nuclear industry, 1965, report, 165
Trempealeau Valley, late Pleistocene diatoms, 13409
Trends in U.S. foreign trade, 10688
Trent, Eva M., data from system of atmospheric electricity stations, 5070
Trenton, N.J.:
area wage survey, metropolitan area, 7669
commodity transportation survey, production area series, 8343
Tress, Jack E., preparation of submicron tungsten powder by hydrogen reduction of tungsten hexachloride, 16580
Trial by jury, *see* Jury.
Triamcinolone, effects on corticosteroid levels in parotid fluid, serum, and urine, 9868
Triangulation, Bilby-steel tower, 5529
Triassic period, deposits in Aral-Sor superdeep well, USSR study, 4600
Triatoma, Chagas' disease study in individuals bitten by North American Triatomida, 92

Trichinosis, how it affects you, your hogs, etc., 6750
Trichlorides, *see* names of trichlorides.
Trichloroethane, diffusion rates through some insulation materials, 1380
Trichloroethylene, flammability characteristics, 9385
Trichlorophenoxyacetic acid, aerial spraying of low-grade hardwood stands in West Virginia, 10569
Trichoptera, *see* Flies.
Tricontinental Conference of African, Asian, and Latin American Peoples, 10358
Triesnecker, AIC 59C, lunar chart, 8196
Trigonometry:
  five-figure table of functions, for determining Seebeck coefficients, 12438
  sine function generator as operating circuit, 6366
Trilobites, new Lower Cambrian trilobite faunule from Taconic sequence of New York, 12506
Trimethylolpropane, NMR analysis of mixed pentaerythritol dipentaerythritol, and trimethylolpropane esters, 1383
Trimpi, Robert L., simulation in expansion tubes and tunnels, 12372
Trinidad and Tobago:
  agricultural production, indices, 7289
  agricultural products, demand, supply, and imports, projected levels to 1975, summary and evaluation, 11865
  economy, basic data, 4011
Trinity College of Washington, D.C.:
  charter, amend—
    law, 17123
    reports, 15790, 16045
Trinity River:
  and tributaries, engineer report—
    departmental editions, 673–675
    document editions, 458–460
  Central Valley project, construction, 12495
Triplehorn, Charles A., revision of Diaperini of America north of Mexico with notes on extralimital species (Coleoptera; Tenebrionidae), 1324
Tripp, Patricia Ann, *see* Paeng, Mi Kyung.
Trips, *see* Travel.
Tri-States Construction Co., Inc., relief, 8532, 17420
Tritium:
  International Conference on Radiocarbon and Tritium Dating, proceedings, 11422
  rainout over United States, 10638
Troeh, F. R., soil survey report, Gem County area, Idaho, 1477
Troops, see Armed Forces—Army.
Trophies:
  Armed Forces, award, authorize—
    law, 15712
    reports, 11632, 13175
  National Guard Bureau—
    Eisenhower trophy to outstanding unit of company size, announcement of winners, pamphlet, 5022, 17952
    indoor rifle and pistol matches, postal, announcement of winners, pamphlet, 17951
  National Rifle Association, indoor rifle tournament, announcement of winners, NGB pamphlet, 11101, 17950
  national trophy matches, 1965, official bulletins, 5348
Tropics:
  hardwoods, solar drying, 16338
  nightglow, seasonal variation, 5019
Tropidurus torquatus, *see* Lizards.
Troposphere:
  influence of tropospheric processes on changes in temperature field and circulation in stratosphere, 4994
  investigation of properties of field fluctuations of ultrashort radio waves during propagation, USSR study, 13450
  long-range tropospheric propagation, USSR study, 10723
Troposphere—Continued
  TIROS IV radiation data, tropospheric water vapor content and surface temperatures, 16606
  transmission loss predictions for tropospheric communication circuits, 13861–862
Troubadors Drum and Bugle Corps of Bridgeport, Conn., relief, 8459, 8693
Troubleshooting, communications equipment, 1348
Trout, Otto F, jr, water-immersion technique for study of mobility of pressure-suited subject under balanced-gravity conditions, 4900
Trout:
  dealers, list, 10532
  Gila, Diamond Creek, N. Mex., ecology, 14079
  infectious pancreatic necrosis (IPN) of salmonid fishes, 8940
Trowbridge, Alexander B:
  addresses, etc.—
    Nov. 17, 1965, 360
    Nov. 23, 1965, 361
    Dec. 16, 1965, 1780
    Feb. 28, 1966, 5540
    Apr. 18, 1966, 8411
Troy, N.Y.:
  area wage survey, metropolitan area, 13597
  commodity transportation survey production area series, 9953
Trucial Coast, *see* Trucial States.
Trucial Shaikhdoms, *see* Trucial States.
Trucial States:
  background notes, 1487
  mineral industry, minerals yearbook chapters, 4755, 17846
Truck mechanics, *see* Mechanics (persons).
Truck trailers, *see* Trailers.
Trucking, *see* Motortrucks in freight service.
Truckmasters, handbook, Army technical manual, 8270
Trucks:
  automobile mechanics, apprenticeship standards, 11388
  wrecker, medium, 5-ton, 6 x 6, M 543, organizational mechanic/repairman course, Army pamphlet, 5361
  see also Motortrucks.
Trued, Merlyn N.:
  remarks, Apr. 14, 1966, 8103
  United States official operations in foreign exchange and gold markets, 11304
Trulio, John G., calculation of two-dimensional turbulent flow fields, 9404
Truman, Harry S., public papers of the President, 5952
Trucklines, *see* Air carriers.
Trust funds, *see* Trusts and trustees.
Trust Territory of Pacific Islands:
  continue civil government, increase appropriations, reports, 16112, 17249
  High Commissioner, report, 12044
  Micronesia, Peace Corps goes to paradise, 9609
  mineral industry, minerals yearbook chapter, 17845
Trustees in bankruptcy:
  powers amend bankruptcy act—
    law, 11591
    report, 10285
  referee prohibited from acting—
    law, 10065
    report, 4098
Trusts (industrial):
  antitrust factor, relevance to U.S.-Canadian relations (remarks), 12790
  antitrust laws—
    administration, investigation—
      authorization, report, 4187
      report, 17461
    subcommittee activities, report, 16100

239–221—67—No. 863——39

Trusts (industrial)—Continued
antitrust laws—continued
applicability to bank mergers—
hearings, 1851, 4126
law, 7029
reports, 496, 5635, 5655
football merger, authorize, reports, 16156, 17841
economic concentration, hearings—
concentration and efficiency, hearings, 1943
print additional copies, report, 558
income tax treatment of treble damage payments under antitrust laws, staff study, 535
Trusts and trustees:
collective investment funds, regulation, hearings, 8768
employee benefit plans, tax exemption qualification determination procedures under internal revenue code, 14779
highway trust fund, financial conditions and operations, 1965 report, 7062
joint industry promotional funds, employer contributions, hearing, 17590
legal investments for trust funds in D.C., list, 5858, 14525
trust indenture act of 1939, releases, SEC, 3625
union trust funds, jointly administered, broaden permissible uses, hearing, 17590
Truth-in-packaging act, *see* Packaging.
Trypanosomiasis, Chagas' disease study in individuals bitten by North American Triatomids, 92
Tryptophan pyrrolase, mechanisms of inhibition during endotoxin poisoning, 6797
Tse-Ta'a, excavations at Tse-Ta'a, Canyon de Chelly National Monument, 13875
Tsiang, Hilda S., relief, 370
Tsifutis, Argyrios A., relief, 8703, 15685
Tsinghai Province, agricultural regions in mixed agro-pastoral realm, preliminary research, 12117
Tsunami (tidal wave):
ambiguity in determination of velocity of propagation of seismic wave from travel-time curve, USSR study, 912
immunity of amplitude criteria of seismic wave phase correlation, USSR study, 14893
longitudinal seismic waves, dependence of absorption coefficient on frequency, USSR study, 16444
seismic sea-wave warning (posters), 5524, 5536
seismic waves in real media, USSR study, 13452
watch and warning, general information, 17636
TSUS, *see* Tariff.
Tsvetkov, Aleksey I., Soviet scientist, biography, 17796
Tualatin project:
construction—
hearing, 4136
law, 15763
reports, 7087, 8567
Tubbs, Carl H.:
growth response of seedling yellow birch to humus-mineral soil mixtures, 4705
sugar maple and yellow birch germination in upper Michigan, influence of temperature, etc., 5983
Tuberculosis:
beds in hospitals and sanatoria, index 13998
hospitals, questions and answers, 8026
osteoarticular, treatment, USSR study, 880
pattern today, general information, 7994
reported data, 13990
Tuberculosis in animals:
eradication in cooperation with States, summary, 3551
fish mycobacteriosis, 11971
Tubes:
adapter assembly prevents damage to tubing during high pressure tests, 13765
aluminum oxide filler prevents obstructions in tubing during welding, 7781
assembled tubing, hand tool permits shrink sizing, 11031
bench vise adapter grips tubing securely and safely, 6382
brazed connectors, improved tool easily removes, 4840
circular, prediction of inversion load, 16685
columbium and tantalum tubing alloys, compatibility with potassium, 9542
condensation of steam in vertical downflow, local heat-transfer coefficients, 6466
cylindrical, free-molecule flow with surface diffusion, 4962
discharge, heated-cathode, directed beam of high-speed electrons through mercury vapors, investigation, 4990
electrochemical milling removes burrs and solders from tubing ends, 13793
Federal item identification guides for supply cataloging, supplements, 2935
finned tube heat exchangers for Brayton cycles in space, 9430
errata, 10939
flared-tube fittings, strainer fits inside, 4881
foldable, one type, evaluation, 2404
forming tool improves quality of tubing flares, 4838
fragmentation, theoretical analysis, 9416
fragmenting, energy-absorption process, 6442
heat exchanger with steam condensing inside tubes, 17928
high pressure coupling requires no threads or flares, 12325
internal flaws detected with portable self-powered device, 4865
mandrel permits uniform welding of out-of-round tubing, 13758
O-ring tube fittings form leakproof seal in hydraulic systems, 4857
portable tool cleans tubing, 2394
portable tool removes burrs from pipe and tubing, 1235
simple device facilitates inert-gas welding of tubes, 9467
single-tube condenser, mathematical model, etc., for dynamic behavior, 11073
soldering contamination prevented with insert sleeve, 11030
split glass tube assures quality in brazing, 7804
stainless steel, armored with reinforced beryllium, hypervelocity impacts, 13826
telescoping of instrumentation tubing eliminates swaging, 10988
tubes with various unheated starting lengths, local turbulent heat transfer for water in entrance regions, 1264
tungsten tubing joined by nickel brazing, 4884
union would facilitate joining of tubing, minimize braze contamination, 13747
unsealed access, accuracy in soil moisture readings, 13363
vidicon, new television camera eliminates, 10986
see also Expansion tubes—Shock tubes—*also* names of metals, etc., of which tubes are made.
Tubes (inner), *see* Inner tubes.
Tubing, *see* Tubes.
Tubular structures, *see* Tubes.
Tucker, Sidney G., portable surfacing for U.S. Army pioneer-type runways, laboratory and engineering field tests, 4340
Tucson Magnetic Observatory, magnetograms and hourly values, 5528

Tufted textile products, July-Dec. 1965, current industrial reports, 8357
Tufts University, rheogoniometer, duty-free entry, 17187
Tugboats:
inspection, require, hearings, 1863
officers, provide for licensing, etc., hearings, 1863
T'u-jang Chuan-pao (periodical): translations, 16398, 16467
Tukhachevskiy, Mikhail, army life, USSR biography, 13460
Tuliptree:
hand-pollinate yellow-poplar without climbing, 10587
yellow-poplar, site index related to soil and topography, 17701
Tumors:
bone decalcification and tumor research, USSR study, 4621
chronic inflammation and tumorous growth, USSR study, 9064
Tuna fish, yellowfin tuna fishery in eastern tropical Atlantic, 750
Tunas, Atlantic, International Convention for Conservation, *see* International Convention for Conservation of Atlantic Tunas.
Tungstates, *see* Ferrous tungstate.
Tungsten:
alloys—
dilute rhenium, mechanical properties, 16654
solid-solution and carbide-strengthened arc-melted, mechanical properties, 6434
arc-melted, influence of boron additions on physical and mechanical properties, 4973
cesium with fluorine, desorption kinetics, 15187
cobalt alloys, vapor deposition, 2355
corrosion properties, 4796
electrical resistivity and conductivity of tungsten-fiber-reinforced copper composites, 15183
electrolyte life in winning from scheelite, 12259
electron-beam-melted—
compared with arc-melted, mechanical properties, etc., 4966
effect of alloying on grain refinement, 13835
electron bombardment heating, effects on tensile properties, 1371
electrowinning in halide and phosphate electrolytes, 7711
fabrication of seamless tungsten and tungsten-rhenium tubing, 11428
heated die facilitates tungsten forming, 6373
high temperature protective coatings for tungsten, 1295
influence of grain orientation on friction characteristics, 4970
low-density powder billets, high-energy-rate extrusion, 16574
mineral industry survey, monthly, 3626
molybdenum alloys, vapor deposition, 17862
powder metallurgy, 1199
recovery from low-grade concentrates by amine solvent extraction, 17854
solid and porous, thermal properties, 7727
submicron powder, preparation by hydrogen reduction of tungsten hexachloride, 16580
tensile behavior of crystals with rhenium in dilute solid solution, 4937
vapor deposited, effect of certain process variables, 6321
wire and tubing joined by nickel brazing, 4884
wire, stress-rupture properties, 12349
Tunisia:
agricultural commodities, agreements, 6643, 15355
labor law and practice, 4714
mineral industry, minerals yearbook chapter, 2345
Tunnel diodes, *see* Diodes.
Tunnels, expansion, simulation, theoretical investigation, 12372
Tupes, Ernest C.:
establishing USAF recruiting service group enlistment objectives, etc., 6807
rater differences in officer effectiveness reports, 90
Turanov, N.M., director, Central Dermatovenerology Scientific Research Institute, USSR, activities in scientific field, 9185
Turbine fuel, aviation turbine fuels, 1965, petroleum products survey, 7704
Turbines:
and components, Federal item identification guides for supply cataloging supplements, 2932
auxiliary equipment of steam turbine power stations, USSR study, 4641
axial-flow turbomachine blade rows, through-flow solution, 4820
census of manufactures, 1963, industry statistics, 8335
coolant flow, effect on Brayton-cycle space-power system performance, 12354
cooling and coolants, bibliography, 3989
gas, MB–5 aircraft firefighting and rescue vehicle powered, 6539
gas turbine engines, foreign object damage, Air Force manual, 5300
hydraulic turbine industry, price indexes for materials, quarterly, 3058
hydraulic turbine operations, index of hourly earnings, selected establishments, 3056
oxidizer pump-drive for turbine rocket engine—
cold-air performance evaluation, 7881
performance evaluation, 6457
plant, labor turnover at Kaluga, USSR, 17773
power station equipment, increasing operating period between repairs, USSR study, 1030
radial inflow, designed for Brayton cycle space power—
cold performance evaluation, 4977
generation system, performance evaluation, 4898
rotor blades, simple key locks, 4860
single-engine helicopters, engine failure protective warning systems, 3838
VK–100–2 LMZ, modernization results, USSR study, 2227
Turbojet aircraft, *see* Airplanes.
Turbojet engines, *see* Engines (aircraft).
Turbomachines, *see* Turbines.
Turbulence:
atmospheric—
central Asia, USSR study, 1004
experimental measurement of optical angular deviation, cause, 11065
papers, 1536
research, USSR study, 16462
boundary layers, pressure fluctuations, 4915
coaxial mixing of dissimilar gases at nearly equal stream velocities, data comparisons and photographic observations, 2418
doppler radar measurements in precipitation, 16412
in-flight, accidents involving U.S. air carriers, 1742
measurements, in conical nozzle with controlled inlet velocity profile, 7822
errata, 17911
transient flow of hydrogen in laminar-turbulent region, 15200
wake turbulence of aircraft, advisory circular, 2011

Turbulent flow, *see* Flow.
Turf, *see* Sod.
Turk, Raymond A., pressure measurements on rigid model ballute decelerator, 13841
Turkey:
background notes, 9717
classes and class struggle, USSR study, 14898
contemporary, Soviet view, 14839
cotton, production, etc., 16319
domestic policy, 1960–63, Soviet survey, 7607
extension of loan of vessels, agreement, 12535
hedgehogs and shrews, 1325
loan of destroyers, law, 426
mineral industry, minerals yearbook chapter, 6308
political and sociological changes, 7568
socialize health services, 4607
Turkeys:
breeder hens, 1966 hatching season intentions, 2596
farm production, etc., 14040
homemakers' opinions and preferences, 14141
industry, contracting and other integrating arrangements, 49
national improvement plan—
distribution by States and varieties, 3729
hatcheries, dealers, and independent flocks, participants, 6712
hatchery and flock participation, tables, 1575
performance tests, 3730
number raised, 1966 intentions, etc., 6665
tested by official State agencies, monthly report, 3627
Turkish language, Foreign Service Institute, basic course, 12539
Turkmen Soviet Socialist Republic:
Academy of Sciences, annual meeting, 14894
anti-religious motifs in folklore, 13510
Turnage, Gerald W., performance of soils under tire loads, analysis of tests in sand from Sept. 1962–Nov. 1963, 10445
Turner, Charles A., relief, 4080
Turner, J. F., jr., evaporation study in humid region, Lake Michie, N.C., 16359
Turner, John, oil and gas lease, reinstate, 17089
Turner, L. Richard, inverse of Vandermonde matrix with applications, 13843
Turner, Norman C., accident, 872
Turney, George E., hydrogen gas flowing in heated tube, 9514
Turnover of labor, *see* Labor turnover
Turpentine, *see* Naval stores
Turrets, lathe cutting-tool alignment made easy by tool post modification, 11000
Tusa, Leonardo, relief, 8516, 12811, 13111
Tutter's Neck, excavations in James City County, Va., 12397
Tuttle, Donald R, curriculum patterns in English, undergraduate requirements for English major, 637
TV, *see* Television
TVA, *see* Tennessee Valley Authority
Twenty years after, appeal for renewal of international economic cooperation on grand scale, 14377
20 years of school lunch, 9833
Twiford, Don D., inservice education for school counselors, 647
Twin Cities, *see* Minneapolis, Minn.—St. Paul, Minn.
Twining, Carl R., promotional activities of agricultural groups, 1590
Two-body problem, cartesian coordinates and partial derivatives, computation, 16589
2,4,5–T, *see* Trichlorophenoxyacetic acid
Tykocinski, Wladyslaw, testimony, hearing, 15995
Tyndale, Harry J., aerospace safety, 2645
Tynes, William O., effects on concrete quality of fluctuations, within specification limits, in coarse aggregate grading, 7338
Typewriters, current industrial reports, 2817, 6923
Typhoons, and hurricanes, areas subject to, design criteria for facilites, Army technical manual, 12661
Typists:
employment outlook, 9279
examination announcements, 9999, 17047
amendments, 6971, 10000
examination, sample questions, 17046
opportunities in State Department, 8067
Tyson, Carolyn A., chronology of Marine Corps, 10896

U

U.S.A.P.R.O., *see* Army Personnel Research Office.
U.S. Antarctic Projects Officer, bulletin, 2712
U.S.D.A., *see* Agriculture Department.
U.S. Government research & development reports, semi-monthly journal, 12760
U.S.I.A., *see* United States Information Agency.
U.S. National Commission for UNESCO newsletter, 3632
U.S.S.R., *see* Union of Soviet Socialist Republics.
U.S.T.S. colored poster series, 14055–61, 15405–410
Ubieta, Victor M., relief, 17068
Udall, Stewart L.:
addresses, etc.—
Nov. 10, 1965, 845
Mar. 1, 1966, 6062
Mar. 22, 1966, 10669
May 21, 1966, 10665
May 30, 1966, 10668
June 10, 1966, 10667
July 19, 1966, 13434
Aug. 10, 1966, 13429
Sept. 6, 1966, 14768
Udell, Gilman G.:
home owners' loan acts and housing acts, 4042
laws relating to vocational education and agricultural extension work, compilation, 12847
UFO, *see* Unidentified flying objects.
Uganda:
agricultural commodities, agreement, 15357
background notes, 1488
economy, basic data, 11513
foreign trade regulations, 15646
market for U.S. products, 12059
mineral industry, minerals yearbook chapter, 7695
UH–1, *see* Helicopters.
UH–1D, *see* Helicopters.
UHF (ultrahigh frequency) radar, *see* Radar.
Uinta National Forest, acquisition of certain lands within boundaries by Secretary of Agriculture, hearings, 4118
Ukrainian Soviet Socialist Republic:
Academy of Sciences—
cybernetics, research, 7632
general meeting, 12166
news, 994
Communist Party, history, 6219
computers, resources and allocation, 12095
cultural relations, maintenance with Ukrainians living abroad, 4593
Donetsk Botanical Garden, construction, 1046
internationalist education, 4613
literary figures, repressions against, 12097
motion picture, shades of forgotten ancestors, comments, 9063

Ukrainian Soviet Socialist Republic—Con.
nationalist emigres denounced as enemies of the people, 2193
Nazi collaborators, thinning ranks, 6245
Odesskaya oblast, centralized industrial administration, 9131
pharmaceutics, development, 6244
rights of Ukrainian minorities in Communist areas outside Ukrainian SSR, appeal, 2171
role in current history, 7610, 9085
Scientific Research Institute of Special Steels, Alloys and Ferroalloys, poor research management, 16405
suspected murder of antibolshevist Ukrainian Kazimir S. Dshugalo, 7611
western propaganda and the Ukraine, 4629
UkrSSR, *see* Ukrainian Soviet Socialist Republic.
Ulcers, peptic, general information, 6580
Ullstrup, A. J., corn diseases in U.S., 12592
Ultrashort waves, *see* Radio waves.
Ultrasonic cleaning restores depth-type filters, 13735
Ultrasonic recording scanner used for nondestructive weld inspection, 11014
Ultrasonics, *see* Sound.
Ultrasound, *see* Sound.
Ultraviolet rays:
plastic scintillator converts photomultiplier to ultraviolet range, 6410
thin carbon film serves as UV bandpass filter, 6386
ultraviolet photographic pyrometer used in rocket exhaust analysis, 6408
uniform vacuum ultraviolet reflecting coatings on large surfaces, 7873
Ulvedal, Frode, testicular function in roosters and mice exposed to increased partial pressure of oxygen, 12631
Umatilla, Oreg., relief, report, 15889
Umber, manganese extraction from Georgia ore, 1163
UN, *see* United Nations.
Un-American activities:
assistance to enemies of U.S. in undeclared war, make punishable, hearings, 15994
curb terrorist organizations—
hearings, 17396
report, 17352
internal security and subversion, principal State laws and cases, study, 581
see also Communism.
Un-American Activities Committe, House:
annual report, 15895
committee print, 1871
expenditures, authorizing, report, 5640
hearings, 4148, 5710, 15994–995, 17396
reports, 4092–97, 5652, 17339–340, 17352
rules of procedure, 1870
Under sea vehicles for oceanography, 4365
Underdeveloped areas:
economic development (periodical), 2873
termination of designation of certain countries as less developed countries for purposes of interest equalization tax, message from the President, 4069
Undergraduate work, *see* Colleges and universities.
Undergraduates, *see* Students.
Underground construction:
North American Air Defense Command, Cheyenne Mountain, Colo., 13679
pipeline, new transport vehicles for construction, USSR study, 12109
Underground temperatures and heat flow in East Tintic district, Utah, 4521
Underwater research, *see* Hydro-optics—Oceanography.
Underwear:
knit, current industrial reports, 2818
women's and children's, census of manufactures, 1963, industry statistics, 8330
Undulant fever, *see* Brucellosis.
Unemployed:
area redevelopment program (address), 7271
area trends in employment and unemployment, 2687
creating jobs for long-term unemployed (remarks), 12795
EDA programs to solve unemployment (address), 15639
Federal Government actions to assure equality of opportunity, training, and employment for all (address), 16511
Federal unemployment tax act in Internal revenue code of 1954, amend, 533, 4217
human resources development program (address), 1078
labor force monthly report, 3218
manpower development and training act—
amendments of 1966—
hearings, 13031, 17592
reports, 15906, 17525
as amended, summary, 4696
research and training, report, 7646
manpower requirements and supply of labor, productivity trends and unemployment (address), 6272
mid-decade census, take in 1966 and 1975, etc., report, 481
Negro problem (remarks), 10398
parents, provide aid for dependent children in D.C., report, 544
structural unemployment in United States, seminar on manpower policy and program, 4700
unemployed-parent segment of aid to families with dependent children, 3633
unemployment and labor force, 2881
unemployment and retraining, annotated bibliography of research, 2285
youth, Oak Glen training camp, 14961
Unemployment, *see* Unemployed.
Unemployment compensation, *see* Unemployment insurance.
Unemployment insurance:
benefit series service, 2703
claims, 3634
employer's tax guide, 854
employment security amendments of 1965, hearings, 534, 1876, 7169
Federal unemployment compensation statutes, amend, proposal, 533, 4217
financing supplemental unemployment benefit plans, 12215
program, extend benefits, etc.—
amendments recommended by Labor Department, 16181
comparison of House and Senate versions, 13206
data relating to House bill, 13207
hearings, 13209
messages from the President, excerpts, 533, 4217
reports, 11633, 13182, 15842
publications, price list, 7986
social administration adviser, examination, announcement, 10001
State laws—
comparison, 4324, 17629
employment and wages of workers covered, 2882
State salary ranges of positions in employment security, etc., 836, 10657
unemployment compensation bills, comparison, 11691
unemployment insurance review (periodical), 3635
UNESCO, *see* United Nations Educational, Scientific, and Cultural Organization.
Unger, Jeanne, weight at birth and survival of newborn, early 1950, 1442
Ungvari, Anna, relief, 1907
UNICEF Day, *see* National UNICEF Day.
Unidentified flying objects, sightings, investigation, hearing, 7124
Unified Action Armed Forces (UNAAF), 9061

Uniform crime reporting handbook, 13311
Uniformed services, *see* Armed Forces—Pay, allowances, etc.
Uniforms:
American soldier, 1863–1963, posters, 3812
Marine Corps, regulations, 13656
postal employees, savings available if items are furnished in lieu of allowances, GAO report, 16350
Troubadors Drum and Bugle Corps, refund of duties, 8459, 8693
Union County, Tenn., geology and mineral deposits of Powell River area, 13400
Union of Soviet Socialist Republics:
Academy of Medical Sciences—
1965 elections, 6184
vestnik (periodical), 3682
Academy of Sciences—
Department of Technical Sciences, technical cybernetics, news, 1035, 2221, 6213, 10811
general meeting, 6236, 16447
recent activities, 944
recent developments, 6210
seagoing research vessels, 6165
vestnik, translations, 7549, 12173, 14792, 14935
acclimatization of fish and food organisms in seas, 2223
activities of foreign societies of friendship, 10807
agricultural science developments, 6191
agricultural situation, 7290
midyear review, 14545
agriculture, translations, 3612
All-Union Botanical Society, 50 years, 2268
All-Union Central Council of Trade Unions, recent congress, 2237
all-Union conferences and congresses—
aerospace medicine, 14945
automatic control, technical cybernetics, 2169
bionics, 13496
electric contacts, 4987
geographic aspects of illumination, works, 6109
mathematical optimal programming, 1071
oncologists, 13552, 16417
physio- and health-resort therapeutists, 14914
physiotherapeutists and health-resort scientists, in Baku, 16459
regeneration and cell division, endocrinological research, 7585
scientific and technical, quality control and nondestructive testing, 12139
space research, transactions on space physics, 9545
surgeons, 28th convention proceedings, 6150
symposium on wave diffraction, 3d, abstracts of reports, 2209
All-Union Group Isotope, 1965, catalog of instruments using nuclear sources, etc., 11415
All-Union Physiological Society imeni I. P. Pavlov, congress, abstracts and summaries of reports, 13542
All-Union Scientific-Research Institute of Railway Hygiene, report on laboratories, 16391
all-Union scientific session devoted to radio day, section on—
antennas, 13560
cybernetics, 13520
electronic computer techniques, 13538
electronics, 14831
general radio engineering, 14942
microelectronics, 13574
propagation of radio waves, 14829
quantum electronics, 14838
radio broadcasting, electroacoustics and sound recording, 14937
Union of Soviet Socialist Republics—Con.
all-Union scientific session devoted to radio day, section on—Continued
radio measurements, 14938
radio receivers and amplifiers, 14941
radio transmitters, 14940
semiconductor devices, 14828
telemechanics, 14816
television, 14939
theory and techniques of transmitting discrete signals, 14830
theory of information, 13562
waveguides, 13561
wire communications, 14936
All-Union Society of Oncologists Board, report on 1958–65 activities, resolution of Council of Scientific Medical Societies Presidium, 10737
aluminum alloy research, 16461
annual inventory of uninstalled equipment, revised, etc., 2203
Antarctic expedition, 1960–62, description and scientific results, 10818
Antarctic expeditions, organization of medical service for members, 6108
Antartica, aerial-photographic, topographic-geodetic and cartographic work, 14866
atheism, promoting among children, 16392
atheistic work in sphere of religious emotions, 937
authors—
condemnation, 6103
trial, remarks by Western critics, 9084
automated production control systems, developments, 16399
automatic instruments and equipment, production, 14928
background notes, 8054
biological science news, 16451
biology, old and new dogmas, 1002
biomedical institutions, directory, notice, 2464
bonus fund for workers, 4668
botanists, biographies, 10714
camouflage techniques survey, 13495
capital investment structure, 955
Caspian depression, structure of southeastern margin, 14806
Central Dermatovenerology Scientific Research Institute, director N. M. Turanov, activities in scientific field, 9185
central rayon hospital management, 7586
changes in higher education proposed, 17781
China boundary study, 8065
chronicle of heroic achievements of people, 2161
city in far north aims for healthier working conditions, 17769
civil defense duties of population and rules of conduct under conditions created by enemy attack, 886
classification table, some principal divisions, 14878
clinical medicine studies, 12177
communications—
herald (periodical), 3039
research with dolphins, 14957
translations, 3615
Communist Party and coalition governments, study, 8783
conferences, congresses, etc.—
cybernetics, 4631, 6159, 6188
material science and metallurgy, 10735
materials engineering, conferences, 16428
metallurgy and welding, 4684
programmed instruction, 16504
scientific conferences, 7564, 10727
space medicine, papers, 946
surgeons, 6185
welding, 17792
construction and building materials industry, translations, 3613
consumer goods and domestic trade, translations, 3616

Union of Soviet Socialist Republics—Con.
controversy over recent developments in economic theory, 10777
Cornelius Ryan's last battle (book)—
commentary on, 13494
reviews by colonel, 14925
cotton production, etc., addendum, 14159
Council of Ministers—
decree on further improvement of system for raising qualifications of key personnel of kolkhozes, etc., 6214
grants direct banking credit to kolkhozes, 6140
criticism of institutes, 7574
critique of Anglo-American oil interests, 17771
cybernetics—
and medicine, 6197
cybernetics—
institutes, news, 6218
new books, 2262
news, 1045, 2235, 6179, 13519
data processing systems in industry, 10790
dialectology, 7600
dust control in coal mines, theory and practice, 12143
earth sciences—
conferences, 13583
studies, 2219
earthquakes during 1963, 13492
eastern regions, coordinating conference on study of earth's crust and upper mantle, 14803
economic cooperation, Soviet-Indonesian, 6176
economic incentive for technical progress, conference, 9101
economic reforms, significance, 6171
economic system—
new, conversion to, 10824
translations—
current developments, 3525
structure and policy, 3526
economics, automation and control, 12093
economy—
basic data, 8430
new directions, 12843–846, 14372
planning under new administrative conditions, 9121
where is Soviet Union going after reorganization? 7605
education—
evening and correspondence study, 650
public, administration, 13513
recent official decrees, 10786
educational and scientific organizations, activities, 16414
electric power, translations, 3617
electron beam technology, 16440
endocrine mechanisms research, 7571
Exhibition of National Economic Achievements, information and data-processing equipment, 2272
financing capital construction, rules, 1041
fisheries and related services, bibliographic guide, 10706
fishing industry, 1966–70, plan, 2148
flight of Kosmos-110, physiological research of effects on test dogs, 12138
foreign exploitation of Iranian oil resources criticized, 9090
foreign trade, 1964, statistical review, 6133
French-Russian relations, Le Monde discussion, 2170
genetics, scientific truth and development, 986
geodesy and cartography studies, 6166
geological research and conferences, news, 6215
geology and geophysics studies, 4683
grain imports, 626
hematogenic service, present and future development, 16443
hematologic service, 13516
Union of Soviet Socialist Republics—Con.
higher mental functions in Soviet psychology, theory of development, 16479
history, methodological advice to propagandists, 7573
hydrobiologists, training, 17772
hydrometeorological service, scientific work at institutes, 14873
hygiene and sanitation studies, 6152
hypodynamia experiment, 2228
industrial development—
automotive industry, 3658
chemical industry, 3659
chemical machine building, 3660
construction machinery, 3661
electrical equipment, 3662
ferrous metallurgy, 3663
general information, 3656
machine industries, 3657
metalworking equipment, 3664
nonferrous metallurgy, 3665
power machinery, 3666
precision equipment, 3667
regional economy, 3668
tractors and agricultural machinery, 3669
infectious diseases, treatment, etc., 17752
institute of cryology needed, 991
Institute of Scientific Organization of Labor (INOT), activities, 9124
instrument building and control systems progress, 16393
international economic relations, 3670
International Hydrological Decade, program activities, 9170
Islam—
critique on, 14947
customs, 6127
entry on Islam in great Soviet encyclopedia, 10791
in USSR, 6226
Kosmos-110 flight, notes, 13148
Krivoy Rog Mining Institute, disagreement among scientists, 16395
Kurdish people, religious beliefs, 14801
labor, 3618
labor conditions, 12224
labor developments, 16528
large-scale machine production, trends, 966
Lenin prizes—
mathematics, winner, Nikolya V. Yefimov, 14881
science and technology, 1966, recipients, 9172
life scientists, biographies, 13476
medical chemistry studies, 9073
medical industry—
enterprises, administrative changes anticipated, 6123
present conditions, 6141
translations, 10749, 10757, 10760
medical radiology, research, 14931
medico-biological faculty, 2151
metal rolling technology, 14946
metallurgical institute critized for poor management, 17766
metallurgy studies, 6177
meteorology and hydrology studies, 4671, 10797
meteorology and oceanography, studies, 10789
meteorology, recent literature, 14870
military translations, 3527
Mine Surveying Institute, facilities and equipment developed, 16485
mineral industry, minerals yearbook chapter, 4780
Ministry of Higher and Secondary Specialized Education—
bulletin, articles, 6118
3 recent orders, 7566
minorities, Ukrainian emigre press comments, 6170
murder and kidnaping as instrument of policy, hearing, 583

Union of Soviet Socialist Republics—Con.
navigational aids in civil aviation, 13456
neuropathologists and psychiatrists, news, 10703
new regional foundries, 12121
northern, sailing directions, change, 2480, 9578
oblast department of health and oblast hospital, organization of work, 908
oceanographic studies, Russian-Cuban, 16489
oceanography, recent developments, 6117
oceanological research laws, 16430
oncological research at Budapest institutes, Soviet report, 17767
organic chemistry institutions visited by Hungarian scientist, 9105
overcoming of religious vestiges, 17774
Palestine problem, report, 17793
physiological research, 9109
physiology, medicine, and technical progress, 2155
physiology studies, 7637, 12134
pipe production, 13501
political science, theoretical articles, 2257
present-day Catholic social doctrine vis-a-vis working class, 16509
price determination, 6181
price formation during 1953–63 decade, 4656
programmed learning and teaching machines, developments, 9171
programmed teaching, 14955
psychology, goals and achievements, 14919
public and private property, theory and practice, 9150
public health, 4618
expenditures, 17763
services in rural regions, 7557
railway, improvement, suggestions and proposals, 14819
rebellion in Russia's Europe, fact and fiction, 585
reform of economics teaching in Volgograd higher educational institutions, 13527
religion and ideology problems, 13586
religion and the church, government attitude, 7601
research, advanced, new academic city in Siberia is focus, 16458
research, 1956–66, in Antarctica, 16445
resolution of presidium of Supreme Soviet USSR on naming and renaming places and organizations, 950
response to western views on price formation, 10783
responsibility and rights of higher schools, 7579
Russian students in South America, 9140
sanitary classification of industries and minimum protective zones, 9123
science—
achievements, 13536
current problems, 10798
education, news, 12146
news, 2274, 4588, 4625, 4672, 6194, 7563, 7618, 10785, 10826
probes, by French journalist, 14817
science and scientific organizations, news, 13580
statements, 10817
scientific abstracts, 3671–77
scientific organizations, news, 14818, 14826
scientific press, criticism, 14927
scientific publications, decimal classification system, 12092
scientific research for economic development, expansion, 14897
scientific research institutions, news, 13555
scientists—
activities, 16432
and scientific organizations—
news, 13499, 13579
work, 17777
Union of Soviet Socialist Republics—Con.
scientists—continued
biographies, 10776
create laboratory pressures of up to 10 million atmospheres, 13506
in Denmark, 13521
Tsvetkov, Aleksey I., and Gordeyev, Nikolay P., biographies, 17796
shipbuilding in 1966, 9092
social science—
in secondary schools, syllabus of new course, 14564
research studies, current lists, 2576, 11247
socialist pledges of workers in ministry of power engineering and electrification for 1966, 13491
socialist state industrial enterprise, statute, 890
Soviet clergyman attacks U.S. action in Dominican Republic, 14904
Soviet public health (periodical), translations, 9188, 12111, 12162, 12172
Soviets and the seas, report of U.S. congressional delegation, report, 12988
space age, exploration of moon, 17761
space flight of Belyaev and Leonov, 6227
space program, developments, 14885
space treaty proposals by United States and USSR, 13189
space vehicle Voskhod, superior technical features, 14863
state statistics under new conditions, 12126
student science societies, role, 16394
students, teaching methods used to form firm atheistic convictions, 12114
study of Man nationality of Vietnam, 17778
surgeons, biographies, 10738
survey of domestic policy in Turkey, 1960–63, after military revolution, 7607
synthetic electromechanical cardiology, book excerpts, 10823
teaching machines, use in higher schools, 13465
textbooks for schools, 14565
theoretical questions concerning Soviet State, 10736
39th Army in Khingan-Mukden operation, 1945, 1065
titanium alloys, mechanical and engineering properties, 13502
toxic chemicals used in agriculture, 2229
transfusion reactions and γ-globulin properties, research, 10752
transportation, translations, 3614
travel of foreign nationals, regulations governing, 14847, 17750
U.S. trade relations, report to the President by special committee, 9718
unforgettable days, World War II reminiscences, 10722
university laboratories, better utilization, 16420
view of contemporary Turkey, 14839
views of US anti-Communism, 17758
wages and production cost in machine building, 2177
weather satellites, views and developments, 14883
wheat, strong and durum, principal varieties, 1009
winners of 1965 Mendeleyev Society prizes in chemistry, 14930
zoology—
recent developments, 6178
recent studies, 6175
Zyryanov, Col Gen, chief of Border Forces, interview, 12120
Union Pacific R.R., accidents, 2139, 12072, 12080
Union wages, *see* Wages
Unions, *see* Credit unions—Fishermen's and fish shore workers' unions—Labor unions.

Unions (brass and bronze):
facilitate joining of tubing, minimize braze contamination, 13747
Unions (iron and steel):
facilitate joining of tubing, minimize braze contamination, 13747
Unique gear design provides self-lubrication, 2385
Unit heaters, current industrial reports, 2818, 12715
Unit safety management, 6841
United Air Lines, Inc.:
accident, 11486
emergency board report, 13284
United Arab Republic (Egypt):
agrarian reforms and agricultural development, Soviet review, 16416
agricultural commodities, agreement, 11267–268
foreign trade regulations, 17055
Libya boundary, study, 8062
mineral industry minerals yearbook chapter, 4781, 17849
organization of medical services to rural population, 7554
United Federation of Postal Clerks, AFL–CIO, agreement with Post Office Department, 16779
United Kingdom of Great Britain and Northern Ireland, *see* Great Britain.
United Nations:
action agency for peace and progress, 18120
ceremonies marking deposit of United States' instrument of ratification of Asian Development Bank (remarks), 15400
conference on law of the sea, convention on fishing and conservation of living resources of high seas, 12527
financial situation, controversy over peacekeeping operations, report and hearings, 10181, 10243
Food and Agriculture Organization constitution, amendments and text, 12533
fresh look (address), 11259
General Assembly, 20th session, report of Congressional delegates, 7104
headquarters, agreement, 9734
peacekeeping forces, use in Middle East, Congo, and Cyprus, 5693
rededication to principles, expressing sense of Congress, report, 11655
United States participation, report—
departmental edition, 6637
document edition, 5598
world population conference, Belgrade, 1965, Soviet papers contributed, 10731
United Nations Educational, Scientific, and Cultural Organization:
resources and action booklet for program planning, 6638
U.S. National Commission, newsletter, 3632
United Planning Organization, District of Columbia, antipoverty programs investigation, hearing, 14415
United Spanish War Veterans, convention, 1965, proceedings, 8497
United States:
NOTE:—For all subjects pertaining to the United States, except its government, general history, and description, *see* such subjects
America illustrated (periodical)—
Polish language, 2675
Russian language, 2676
anti-Communism, 2 views, USSR, 17758
becoming a citizen series—
our American way of life, 2110
our Government, 4543
our United States, 6051
teacher's guide, 4544
constitution and Government, Federal textbook on citizenship, 6052, 7504
United States—Continued
foreign aid policy, what should it be? national high school debate topic 1966–67, 13065
geographic names, decisions lists, 2088, 7479, 13390
information for visiting students, 5202
map, showing extent of public land surveys, etc., 13651
map showing national parks, etc., announcement and order form, 17999
state of the Union message by President Johnson, 5599
excerpts, 7210
statistical abstract, 1966—
departmental edition, 15597
document edition, 15781
travel directions, travel new world, see U.S.A., 5201
Dutch edition, 15411
French edition, 15404
Spanish edition, 15403
welcome to U.S.A., 11305
French edition, 15402
Spanish edition, 15401
United States Arms Control and Disarmament Agency, biographic register, 12520
United States Coast pilots, *see* Coast pilots.
United States code, *see* Codes of law.
United States commissioners, system, role of commissioner in administration of Federal criminal justice, etc., hearings, 588, 7225, 10359
United States Committee on Human Rights:
establish—
hearings, 14421
reports, 17237, 17529
United States Corrections Service, create, hearings, 14429
United States District Court for D.C.:
transfer functions—
law, 11589
report, 10119
United States Information Agency:
appropriation, 1964, practices which resulted in invalid and other questionable use, GAO report, 7473
appropriations, 1967—
decrease, 12857
hearings, 15955, 17567
reports, 15938, 17348, 17539
biographic register, 12520
career intern program in broadcasting, 5197
career opportunities, 5198
field staff, Foreign Service list, 2992
foreign affairs personnel, transfer to unified system, hearings, 11805
Foreign Service career opportunities, 2618
general information, 9755
magazine reprint MR series, 3173
officers, nominations to be Foreign Service officers, hearings, 11805
report, semiannual, 2619, 5200, 6683, 16893
United States Mission to United Nations, biographic register, 12520
United States National Committee on Vital and Health Statistics:
history, 14000
report of 15th anniversary conference, 12487
United States Navy, keeping the peace, 16749
United States-Puerto Rico Commission on Status of Puerto Rico, hearings, print as Senate documents, reports, 11735, 12998
United States reports, *see* Supreme Court.
United States Travel Service:
press releases, 3410
semiannual report, 8108
Univac Division of Sperry Rand Corporation, overhead costs charged to Government contracts, GAO report, 9000
Universal military training and service act, *see* Military service.

Universal Postal Union:
constitution, convention, etc., 6640
history, etc., 1395
Universal transloader moves delicate equipment without stress, 15114
Universe:
cosmology without general relativity, 6428
nature of curved space, USSR study, 4614
Universities, *see* Colleges and universities.
University of Alaska:
repeal certain provisions of act of Jan. 21, 1929—
law, 15758
reports, 11738, 15869
transfer Alaska Agricultural Experiment Station to, report, 17462
University of California:
carillon, duty-free entry, 17192
marine biological research laboratory, use of land donated, law, 404
University of Chicago, mass spectrometer, duty-free entry, 379
University of Hawaii, mass spectrometer, duty-free entry, reports, 16130, 17332
University of Illinois, ionosonde, duty-free entry, 17191
University of Missouri, double neutron diffractometer, duty-free entry, 17190
University of Nebraska, mass spectrometer, duty-free entry, reports, 16130, 17332
University of Pennsylvania, broad-range multigap magnetic spectrograph, duty-free entry, 17189
University of Pittsburgh, split pole magnetic spectrograph system, duty-free entry, 388
University of Rochester, mass spectrometer and split pole spectrograph, duty-free entry, 373
University of South Dakota, shadomaster measuring projector, duty-free entry, 376
University of Tennessee, Agricultural Research Laboratory, research progress reports, 6858, 11431
University of Utah, rheogoniometer, duty-free treatment reports, 16130, 17332
Unlading and lading:
fresh fruit and vegetable unloads—
eastern cities, 5833
midwestern cities, 5834
southern cities, 5835
totals for 41 cities, 7240
western cities, 7239
hard winter wheat area, unloading boxcars of grain at terminal elevators, 15434
loading environment and related requirements for platform rigged airdrop materiel, military standard, 7265
Unloading, *see* Unlading and lading.
Unruh, Henry, jr.:
significance of dimensionality in spin wave theory of ferromagnetism, 11099
some properties of eigenfunctions and eigenvalues introduced by Bethe for linear chain of atoms, 11100
Unshackling local government, report, 15843
Unused manpower, Nation's loss, 16514
Updike, D. P., tube fragmentation, 9416
Upholsterers, automobile, employment outlook, 9210
Upholstery, *see* Furniture.
Upland cotton, *see* Cotton.
UPO, *see* United Planning Organization.
Upper atmosphere, *see* Atmosphere.
Upper Duck River and Valley, economic and resource development, summary, 2612
Upper Great Lakes Economic Development Region, designation (remarks), 5560
Upper mantle, *see* Earth.
Upper Volta, mineral industry, minerals yearbook chapter, 9362
Upward bound, program to help youth from low-income families achieve college education, etc., 7284
Upward Bound, war on talent waste, 10407
Ural electronic computers, *see* Electronic computers.
Uraniferous zirconium, *see* Zirconium.
Uranium:
coming market (remarks), 8299
concentrates, analysis, 1293
deposits—
La Sal quadrangle, Utah and Colo., 7486
Temple Mountain district, Emery County, Utah, 9007
exploration in Chile, 6859
Fort Meade quadrangle, economic geology, 12011
investigations in Brazil (series), 13395
investigations in Cave Hills area, Harding County, S. Dak. (series), 17719
liquid, metal, and carbon systems, vaporization, 15076
liquid, systems, vaporization at very high temperatures, 2368
minerals yearbook chapter, 16587
mining methods and costs at section 23 mine, Homestake-Sapin Partners, 4755
origin of elements in Cave Hills area, Harding County, S. Dak., 17719
reaction rate of uranium metal with uranium tetrafluoride in molten fluoride solutions, 6322
reconnaissance—
Lonquimay area, province of Malleco, Chile, 5400
northeast coastal Brazil, 5399
selected measurement methods in nuclear fuel cycle, evaluation, 6854
supply and demand situation (remarks), 14241
tables of 10–10 uranium unit cost components, 16970
United States resources and requirements for civilian power (remarks), 14240
uranium-bearing steels, cooling transformations, 2492
Uranium fluorides, reaction rate of uranium metal with uranium tetrafluoride in molten fluoride solution, 6322
Uranium isotopes, U–235, recovery in absolute air filters, gamma spectrometric measurement, 8291
Uranium tetrafluoride, reaction rate of uranium metal with uranium tetrafluoride in molten fluoride solutions, 6322
Uranus (planet):
observations, spectrophotometric study, etc., 12375
Uranyl fluoride, water solutions, thermal neutron flux perturbation by dysprosium-aluminum foils, 6428
Urban areas, *see* Cities and towns.
Urban Development Committee, National Citizens' Commission report for White House Conference on International Cooperation, staff report, 13022
Urban League, program (address), 10014
Urban life, *see* Cities and towns.
Urban planners, *see* City planners.
Urban planning, *see* Redevelopment (city planning, etc.).
Urban renewal, *see* Redevelopment (city planning, etc.).
Urban Renewal Administration:
allocation of school facility costs to federally assisted urban renewal projects in New Jersey and Illinois, GAO report, 6002
press releases, 3411
technical guide, 8109
Urban renewal manual, 3653
Uremia:
bibliography, 13980
chronic, research program, opportunities for participation, 18980
patients, parotid fluid, total protein, 9875

Urethanes:
foam, fire hazard in mines, 12261
storage-stable foamable polyurethane is activated by heat, 10985
Uric acid:
content of parotid fluid collected without exogenous stimulation, 9869
parotid fluid responses to probenecid administration and to hemodialysis on artificial kidney, 9874
Urine:
calcium determination in weightless state, 6810
corticosteroid levels, prednisolone and triamcinolone effects, 9868
creatinuria in irradiated primates, 14190
rats exposed to ionizing radiation, study of fluorescent products, 8212
Urine analysis, *see* Urine.
Urrows, Grace M., nuclear energy for desalting, 15548
Uruguay:
Argentina boundary, study, 15342
education, commission for educational exchange and financing programs, agreement, 1496
foreign trade regulations, 7011
mineral industry, minerals yearbook chapter, 7691
USAF, *see* Air Force.
USAFI, *see* Armed Forces Institute.
USAPRO, *see* Army Personnel Research Office.
USATEA, *see* Army Transportation Engineering Agency.
USDA, *see* Agriculture Department.
Use tax:
airways user charges, proposed legislation, hearings, 15996
State taxation of interstate commerce report, print additional copies, reports, 10187, 14461
Useful information about working for Uncle Sam, 2520
Useller, James W., use of aircraft for zero-gravity environment, 9517
USIA, *see* United States Information Agency.
Using your rural credit union, 7347
USSR, *see* Union of Soviet Socialist Republics.
Utah:
climatological data, 2751
congressional districts, 90th Congress, 15598
convey relicted lands lying below meander line of Great Salt Lake—
hearings, 13045
law, 11550, 15724
reports, 5769, 8546, 10162, 12934, 16068
county business patterns, 240, 5470, 17004
designate as site for 1972 Olympic games, reports, 5787, 8574
electric rate book, 723
Federal-aid highway program, right of way acquisition activities, Public Roads Bureau, GAO report, 13384
forests, 4478
life tables, 18052
manufacturing plants, location by county, industry, and employment size, 1963 census, 14260
mineral industry, minerals yearbook chapter, 1147
nonpegmatitic beryllium occurrences, 15029
north slope, timber management issues, 14712
precipitation data, hourly, 3045
Wasatch Soil Conservation District, sheep on managed mountain range (colored poster), 9704
water supply outlook and snow surveys, 3693
women, labor laws, summary, 2631
Utah State Training School, photomicroscopes, duty-free entry, 389, 542
Utah State University, mass spectrometer, duty-free entry, reports, 16130, 17332
Uterus, uterine cancer, question and answers, 2536, 12482
Utica, N.Y., commodity transportation survey, production area series, 9953
Utilities:
Military Academy, provide without charge to civilian instructors, report, 12966
outside emergency construction, manual, 5375
steam, hot water and compressed air distribution systems, maintenance manual, 5255
utility targets, guide for development and use, 9770
see also Electric utilities.
Utility companies, *see* Electric utilities—Public utilities.
UV, *see* Ultraviolet rays.
Uzbek Institute of Regional Medicine, scientific session, 6156
Uzbek Soviet Socialist Republic:
antireligious propaganda in Kara-Kalpak ASSR, 9068
Institute of Regional Medicine, scientific session, 6156

V

V.A., *see* Veterans Administration.
VA, *see* Veterans Administration.
VA fact sheet IS (series), 6689
Vacation pay, *see* Wages.
Vacations, potential of air travel for vacations (remarks), 1743
Vaccaro, Joseph, reliability physics notebook, 8201
Vaccine, *see* Foot-and-mouth disease vaccine—Influenza vaccine.
Vacuum:
automatic vacuum pickup for bags, tags, and cartons in packaging and labeling agricultural products, 6710
baking enables McLeod gauge to measure in ultrahigh vacuum range, 2380
dielectrometer design permits measurement in vacuum under irradiation, 16624
electrovacuum materials, assortment and use, USSR study, 16476
environment—
damping characteristics of built-up cantilever beams, 1251
feed-through connector withstands high temperatures, 2379
extreme, technology developments, 1184
fatigue machine for operation at resonance in vacuum, 1368
filtration, steam as coal dewatering aid, pilot plant study, 4798
fixed vacuum plate clamps styrofoam for machining, 12323
force in vacuum environment, transducer for measuring, 7807
high-vacuum technology, testing, and measurement meeting (papers), 15130
lines, rubber-coated bellows improves vibration damping in, 10996
polytetrafluoroethylene lubricates ball bearings, 6405
rapid decompression to near vacuum, effect on chimpanzee, 1188
self-supported aluminum thin films produced by vacuum deposition process, 15117
single crystal and polycrystalline aluminum oxide in contact in, friction characteristics, 15190
single-crystal beryllium, effect of orientation on friction characteristics, 12358
solid-film lubricant effective, 7763
systems, helium permeation of glass, special treatment reduces, 15102
test fixture improves leakage rate measurements, 12326

Vacuum—Continued
thin-film ferrites vapor deposited by one-step process, 15128
titanium-aluminum alloys, friction, wear, and adhesion characteristics, 4969
ultrahigh—
creep behavior of columbium and tantalum alloys at 2000° and 2200° F for times greater than 1000 hours, 4960
operating parameters of omegatron mass spectrometer, 4908
produced by titanium sublimation pump, 15118
uniform ultraviolet reflecting coatings on large surfaces, 7873
vacuum chamber provides improved insulation and support for cryostat, 2387
vacuum technology and space simulation, 16619
vaporization rate for selected compositions in TaC-HfC system at several temperatures above 2000° C, 12365
Vacuum gages:
rod and dish cathode improves Penning-type vacuum gauge, 6406
volume-ratio calibration system, evaluation, 1266
see also Ionization gages.
Vacuum pumps, *see* Pumps.
Vacuum tubes, *see* Cathode ray tubes.
Vacuum systems:
all-metal mercury vapor superhigh vacuum unit, USSR study, 1060
automatic protective vent has fail-safe feature, 15099
see also Degasification.
Valdes Cruz, Oscar, relief, 15671
Valdes-Rodriguez, Julio, relief, 16059
Valdez, Alaska, earthquake of Mar. 27, 1964, effects, 6036
Valdivia phase, early formative period of coastal Ecuador, 6499
Valencia, Juan I., International Symposium on Genes and Chromosomes, Structure and Function, 5030
Valentine National Wildlife Refuge, general information, 2044
Valera, Jaime E. C., relief, 11718, 15681
Valerino, Michael F., methods of determining heavy-isotope content of operating fuel elements, 8277
Validation of experimental tool and trade knowledge tests, 3840
Vallejo, Calif., commodity transportation survey, production area series, 9959
Vallely, James L., mineral industry of Georgia, 1123
Valleton quadrangle, Calif., geology, 13398
Valuation:
law, and problems of setting prices, USSR study, 4675
merchant wholesaling firms, value produced in and by, 1963, 269
Value engineering, program management guidelines, Army AMC pamphlet, 8228
Valves:
cryogenic trap, no moving parts, 7790
diaphragm valve for corrosive and high temperature fluid flow control, unique features, 15096
electronic bidirectional valve circuit prevents crossover distortion and threshold effect, 16640
Federal item identification guides for supply cataloging, supplements, 2935
flow ring valve, simple, quick acting, 11045
gas-injection, operates at high speed, 15111
improved poppet valve provides positive damageproof seal, 2381
metering and safety combination, for filling sonde balloons with hydrogen, description and drawings, 17941
pneumatic shutoff and time-delay valve operates at controlled rate, 10998
Valves—Continued
quick-closing, actuated by explosive discharge, 11025
respiratory transfer valve has fail-safe feature, 2388
ring, responds to differential pressure changes, 4859
rotary, controls multiple hydraulic leveling cylinders, 16625
segmented ball valve is easy to open and close, 11002
shock-operated, would automatically protect fluid systems, 13770
shutoff, standard, matching flow characteristics eliminates need for custom fabricated valves, 16638
soft-seal valve holds hazardous fluids safely, 11010
valve seat pores sealed with thermosetting monomer, 13757
vortex, for medium-temperature solid propellants, 7742
Vampire bats, *see* Bats.
Vanadium:
and some vanadium alloys, corrosion properties, 4796
deposits, La Sal quadrangle, Utah and Colo., 7486
disposal from national stockpile—
hearing, 10325
law, 10075
reports, 8590, 8758
electrorefined, with interstitial impurities, correlation of yield behavior, 1169
mineral industry survey, monthly, 3678
minerals yearbook chapter, 13703
thermodynamic properties of vanadium and its compounds, 7706
Ti-8Al-1Mo-1V sheet, fatigue behavior, 1190
Van Allen radiation belts, inner zone, protons and electrons, trapped radiation environment, models, 4835
Vandermonde matrix, *see* Matrices (mathematics).
Vanderver, Timothy A., jr., basic data on economy of India, 4005
Van Dolah, Robert W.:
explosion hazards of ammonium nitrate under fire exposure, 7718
sympathetic detonation of ammonium nitrate and ammonium nitrate-fuel oil, 7714
Vanishing point, *see* Perspective.
Van Ness, H. N., acoustic ray ship positioning and tracking system, 6545
Van Nostrand, Robert G., interpretation of resistivity data, 10644
Van Ornum, Delbert G., vortex stabilized radiation sources for improved solar simulation, 9436
Van Rign, Rembrandt Harmens, *see* Rembrandt Harmens Van Rijn.
Van Wyckhouse, James F., high performance UH–1 compound helicopter maneuver flight test program, 8273
Van Zandt, Franklin K., boundaries of United States and the several States, 6030
Vapor, *see* Water vapor.
Vapor deposition of molybdenum-tungsten alloys, 17862
Vapor pressure:
carbon dioxide, at ice point, 10928
measurement of silver from 1,200° to 1,500° K, by torsion effusion method, 1156
measurements, Knudsen effusion apparatus, 17858
Vaporization:
complementary system vaporizes subcooled liquid, improves transformer efficiency, 6371
liquid uranium bearing systems at very high temperatures, 2368

Vaporization—Continued
liquid uranium, metal, and carbon systems, 15076
n-heptane, in unstable combustor with traveling transverse oscillations, analysis, 9537
propellants with different rates, analysis of chugging in liquid-bipropellant rocket engines, errata, 12333
vacuum, rates for selected compositions in tantalum carbide-hafnium carbide system at temperatures above 2000°C, 12365
Vapors:
acid, determination in PPM range, 6546
cobalt-tungsten alloys, vapor deposition, 2355
condensation, study method and physics of heat exchange, 4989
deposition, effect of certain process variables on tungsten, 6321
high velocity, stability of intermixing with its subcooled liquid in concurrent streams, 16656
potassium, nozzle expansion and flow characteristics, 4953
sodium, nozzle critical flow characteristics, 4931
thin-film ferrites deposited by one-step process in vacuum, 15128
toxicity of new antidetonator, manganese cyclopentadienyltricarbonyl, 899
vapor compression distillation using secondary heat transfer media for sea water conversion, 6063
vapor diffusion electrode improves fuel cell operation, 13729
water jets for space vehicle attitude control systems, 13846
see also Mercury vapor—Water vapor.
Varaiya, Pravin P., nonlinear programming and optimal control, 9441
Variables (mathematics):
computer system for intraspecies biologic and behavioral variability studies, 12643
control of time variable, nonlinear multivariable systems using Liapunov's direct method, 7729
discontinuous state, in calculus of variations, 11071
estimating fuel moisture content of indicator sticks, 10606
Variance analysis:
periods defined by irregular observations, 9434
replication, approach to analysis of data from complex surveys, 11198
Varney area, Ky., geology and coal reserves, 9019
Varnish and varnishing:
current industrial reports, 2817, 15587
Federal test method standard, 4397
varnishes, industry wage survey, 17812
Varnishes, *see* Varnish and varnishing.
Vasilopoulos, Ioannis A., relief, 8721
Vastakis, Panagiata, and son, relief, 5746, 8455
Vasys, Jesse, technic for removal of whole retinas 12644
Vatz, Irvin P., general mathematical model for beam and plate vibration in bending modes using lumped parameters, 9518
Vaughan, C. L., hardwood log grades for standard lumber, 17698
Vaughan, Lucile, nutritional requirements for survival in cold and at altitude, symposia, arctic medicine and biology, 14185
Vaughan, Willard S., jr., functional requirements of training equipment for Army command tactical decision making, 7970
Vaughn, Jack H., nomination, hearing, 5808
VAVS, *see* Veterans Administration Voluntary Service.
Vectorcardiography, application of time-base expansion, 5333
Vectors (mathematics), *see* Mathematics.
Vega Dam and Reservoir:
lands acquired, reconvey mineral interests to former owners—
law, 15752
report, 16120
Vegetable and Fruit Bargaining Cooperatives, National Conference, *see* National Conference of Fruit and Vegetable Bargaining Cooperatives.
Vegetable products, *see* Agricultural products.
Vegetables:
canned, economic inquiry into marketing, 2033
commercial processing, acreage marketing guides, 5828
culture, etc., publications, price list, 1404
disinfestation by gamma irradiation, dosimetry, tolerance, and shelf life extension, annual report, 8296
fresh—
acreage, production, etc., 1965, 2597
market, acreage and estimated production, monthly report, 3680
market news, weekly summary, 3006
prices, 1965, Chicago and New York City, 9840
shipments by commodities, States, etc., 14508
shipments by States, 10373
unloads—
eastern cities, by commodities, States, etc., 5833
41 cities, 7240
midwestern cities by commodities, States, etc., 5834
southern cities, by commodities, States, etc., 5835
western cities, by commodities, States, etc., 7239
growing in Appalachian region, 12602, 15445
home freezing, 14137
how to use USDA grades in buying, 16936
import competition, 16727
industry, organization and competition, 15215, 16727–728, 17947
leafy, aphids, how to control, 6742
marketing orders, Federal and State legislation, 17949
Mexican production, survey, 13354
processing—
annual summary, 1965, 5180
plants under USDA continuous inspection, list, 16202
statistical report, 3681
prototype commercial forced-air precooler, 3732
seeds, foreign agriculture circulars, 2987
shelf life, extending by use of radiation technology in postharvest procedures, 5413
spring, acreage marketing guide, 589
summer and fall, acreage marketing guides, 5827
U.S. standards, check list, 8791
vegetable situation, 3679
Vegetation:
and hydrologic phenomena (series), 6033
control firebreak maintenance with soil sterilants, 14707
herbaceous, prescribed burning, response, 10586
initial development following prescribed burning of Douglas-fir in south-central Idaho, 16337
range, effects of stocking rates, northern Great Plains, 3772
spacing and understory vegetation affect growth of ponderosa pine saplings, 2063
understory, in H. J. Andrews Experimental Forest, effect of logging and slash burning, 8961
variation following slash fires, near Oakridge, Oreg., 2062

Vegetative functions, coordination in man during muscular activity, USSR studies, 14824
Vehicles:
brake, steering, axle, wheel, and track components, identification list for Federal supply catalog, Defense Dept. section, 5851
equipment components, Federal item identification guides for supply cataloging, supplements, 2932
mobility environmental study one-pass program, 5347
tactical and support, organizational mechanic/repairman course, Army pamphlet, 5361
tactical, tracked and wheeled, painting procedures, military standards, 11849
transport, for pipeline construction, USSR study, 12109
under sea, for oceanography, 4365
see also Air cushion vehicles—Aircraft—Firefighting vehicles—Motor vehicles—Parking of vehicles—Rockets—Spacecraft.
Vela Uniform program:
Project Dribble, Salmon event, seismic decoupling at nuclear level, experiment, Tatum Salt Dome, Miss., 3850–53, 5414–16, 6868
Project Shoal, post-shot hydrologic safety, 6867
Velocity:
chemical stages in 300 to 400 second range for interplanetary missions, performance analysis, 2434
components and radial pressure distributions in vortex contained in short cylindrical chamber, experimental profiles, 1254
determination of propagation of seismic wave from travel-time curve, USSR study, 912
effects on boiling nitrogen, 15138
impact-light-flash at high velocities, experiments, 7738
impulsive velocity corrections, linear theory, 7878
measurements in Langley hypersonic arc tunnel, 7843
profile, controlled inlet, conical nozzle, turbulence, heat-transfer, and boundary layer measurements, 7822, 17911
profiles, downstream of nozzle exhausting to quiescent air, 16673
propagation of pulse waves, method of determining, 4998
propellant injection, effect on screech in 20,000-pound hydrogen-oxygen rocket engine, 7884
random pressure excitation of shells and statistical dependence effect of normal mode response, 1180
reflected, potential, in far field of rigid bodies, 12422
shock, use of microwave technique for continuous measurement, 10957
sonic wave, measurements used to determine elastic constants, strength and density of Greenland snow, 9891
spray, resulting from high-velocity penetration of thin plates by disks, 16682
tangential, effects on spinning transverse combustion instability, 9531
Velveteen:
general imports and manufactures, 8321
Italian exports of cotton fabrics, trade agreement, 6047
Vending machine mechanics, *see* Mechanics (persons).
Vending machines, vending of food and beverages, sanitation requirements, 14997
Veneer logs, *see* Logs.
Veneers, Federal item identification guides for supply cataloging, supplements, 2935
Venereal diseases, basic statistics on problem in U.S., fact sheet, 9630
Venereology, advances, USSR studies, 13565
Venesky, D. L.:
adhesive restorative dental materials, literature, survey of inorganic polymers, 2498
resistance of flame-fused teflon-coated magnesium and alumium alloys to corrosion by 3% sodium chloride solutions, 12432
Venezuela:
eastern, Penaeid shrimp, distribution, 748
mineral industry, minerals yearbook chapter, 10917
Orinoco Delta and Paez District, geography, 13462
Ventilation:
Central Laboratory for Ventilation and Heating Industry, regulations, Eastern Europe, 7545
crankcase systems on automobiles, performance, 15293
systems for small craft, 11508
temporary, portable, shipboard ventilation for control of flammable atmospheres, maritime safety data, 16524
see also Mine ventilation.
Vents:
acrylonitrile-butadiene-styrene pipe and fittings, standard of trade, 1290
automatic protective vent has fail-safe feature, 15099
Venue:
civil action amendment, report, 15885
habeas corpus applications, amend U.S. Code—
law, 15760
reports, 15886, 17478
Venus (planet):
Mariner-Venus 1962, final project report, 4833
Verbal communication, intelligibility in oxygen-helium breathing mixtures at low atmospheric pressures, 8205
Verde River, water supply outlook and snow survey, 3687
Verkamp, J. P., electromagnetic alkali metal pump research program, 6332
Vermiculite:
mineral facts and problems chapter, 1172
minerals yearbook chapter, 17869
Vermont:
bus taxation proration compact, consent of Congress, law, 414
Caledonia County Soil and Water Conservation District, dairy cows on improved pasture (colored poster), 9705
census of manufactures, 1963—
area statistics, 14251
manufacturing plants, location by county, industry, and employment size, 14254
county business patterns, 241, 17005
electric rate book, 724
life tables, 18053
mineral industry, minerals yearbook chapter, 1148
women, labor laws, summary, 1556
Verrall, Arthur F., building decay associated with rain seepage, 16942
Verzich, Manojlo, relief, 5745, 8454
Vessels, *see* Boats—Fishing vessels—Shipbuilding — Shipping — Ships —Tankers—Warships.
Vesta (asteroid):
trajectories, planetary flight handbook, 9445
Vestibular apparatus:
coriolis stimulation, comparison of flying experience between pilots and nonpilots, 9877
primer of function, spatial disorientation, and motion sickness, 14189
role of vestibular organs in exploration of space, 6353
training for aerospace operations, 91

Vestibular system, congenital feline cerebellar hypoplasia, effects, 12628
Vesting orders:
German paintings, under trading with the enemy act, transfer to Germany—
law, 17117
reports, 15921, 16154
Vestnik of USSR Academy of Medical Sciences (periodical), 3682
Vestnik of USSR Academy of Sciences (periodical):
translations, 14792, 14935
Veterans:
benefits—
available for veterans and dependents, fact sheet, 6689
in brief, 5209A
slide rule calculator, print additional copies, reports, 10196, 17468
burial allowances, amend law—
law, 5585
reports, 4083, 5765
children of deceased or disabled Philippine veterans, extend educational assistance benefits—
hearings, 16195, 17397
law, 17112
reports, 15867, 15878, 16134
civil service preference, 12757
handbook for counselors, 17045
claims, disposition by regional offices, 11687
deceased or disabled, educational assistance for their children, 2621
disability insurance, total, eligibility, GAO review, 12002
disabled, automobile grants, liberalize provisions, report, 11749
drugs and medicine for aid-and-attendance pensioners, reports, 17204, 17220
educational assistance during June 1966, report, 17496
legislation—
89th Congress, 1st session, 7228
enacted in 1965, 6609
hearing, 8787
reported, summary, 89th Congress, print additional copies, reports, 10191, 16098
loans—
direct and insured cases, extend treble-damage actions to—
law, 17119
reports, 10129, 16142
guaranteed and direct, questions and answers, 18137
medical care, specialized medical resources, provide, hearing, 8787
nursing care programs, operation, review, hearings, 11689
nursing home care in Alaska and Hawaii, eliminate certain requirements, reports, 10134, 11744
Philippine, hospitalization and medical care program, extend—
hearings, 16195, 17397
law, 17111
reports, 15866, 15877, 16133
post-Korean, provide GI benefits, hearing, 5711
prebed and posthospital care, report of VA committee studying, 14444
publications, price list, 16789
readjustment assistance, permanent program, etc.—
digest and analysis of Cold War GI bill, 5819
print additional copies, report, 7196
hearing, 5711
law, 5583
report, 4099
reemployment provisions of universal military training and service act, clarify—
hearing, 5683
report, 5673
Veterans—Continued
relief, code of Federal regulations, 10495
service-connected, drugs to be furnished, report, 10131
social security benefits, 6606
travel expenses, prepayment—
law, 11564
reports, 4086, 11747
veteran occupant mortgagors, FHA appraised values and maximum mortgage amounts for 1-family residences, specified statutory or administrative limits, 4373
Vietnam era readjustment assistance act—
hearing, 16185
report, 17552
World War I, loans made upon security of adjusted-service certificates, cancel certain unpaid interest, report, 12955
see also Life insurance—Pensions—Rehabilitation of the disabled.
Veterans Administration:
administrator, contract with medical schools and clinics for scarce medical specialist services, report, 10126
appropriations, 1967, hearings, 8651, 13193
benefits in brief, 5209A
brokers' fees for VA property management—
law, 17121
reports, 5650, 16143
cancel hazard insurance on properties acquired in default of housing loans, 13383
career opportunities—
count your benefits, 15414
nurse, rewarding career for you, 18136
careers in automatic data processing, 18139
chaplain workshops 1966 (papers), 16895
Committee Studying PBC and PHC Activity, report, 14444
cost reduction program and you, 5210
debt collection efforts, defaulted housing loans, GAO report, 4504
Deputy Administrator, to assume duties of Administrator during absence, etc., statutory authority—
law, 5586
reports, 4084, 5766
eligibility of veterans for total disability insurance, GAO review, 12002
excess medical equipment and supplies, greater utilization, GAO report, 9003
facilities—
definition of terms, amend U.S. Code, report, 11744
naming, report, 10136
field stations, savings by using more economical fuels, GAO report, 14739
fuller use of medical research by VA, report, 8759
handbook series, 14063
hospital and medical program, operations, 10270
hospitals, veterans' views on medical care, survey, 11690
information bulletin IB series, 2620, 33200, 8110, 14064, 18133
land conveyance to Pinellas County, Fla.—
hearings, 13061
report, 17205
land transfer to Cheyenne, Wyo., law, 445
loan guaranty program, purchase of title insurance on properties acquired in Florida, GAO review, 12004
manuals, 5207–8
medical care provided veterans, improve quality of services, hearing, 8787
medical community planning participation, report, 10128
medical research—
annual report, 5209
highlights, 6686
program 1965, synopsis, 15413

Veterans Administration—Continued
medical system, impact of medicare, 11688
medical training, statistics, 10271
Medicine and Surgery Department—
functions, clarify, hearing, 8787
opportunities for physicians, 16894
national service life insurance, total disability income provision premium rates, 18138
patient returns to community, guide for voluntary service program, 11306
personnel information bulletin, 3320
procedures for terminating total disability benefits under national service life insurance policies, GAO report, 7477
psychiatric research, 5213
regional offices, disposition of claims, 11687
report, 1965—
departmental edition, 5206
document edition, 4054
research into spinal cord injuries—
hearing, 8787
report, 16140
research program, restoration centers, intermediate care wards, nursing care home units, domiciliaries, 1st conference on RIND, transactions, 14066
resident in hospital administration, examination announcement, 3987
safety and fire protection bulletins, 2620, 8110, 14064, 18133
tort claims arising in foreign countries, settlement, etc., law, 402
training and education of health service personnel, clarify responsibility—
hearing, 8787
reports, 5651, 17540
VA pamphlets, 2621, 5210–14, 11306–307, 12552, 14067, 15414, 16894–895, 18135–139
youth opportunity programs, participation, 14067
Veterans Administration Voluntary Service, VAVS story, 5214
Veterans' Affairs Committee, House:
calendar, 3126
committee prints, 1872, 10270–272, 11684–688, 11690, 14444
hearings, 5711, 8684–86, 13061–63, 11689, 14443, 17397
investigations and studies, expenses, report, 4109
reports, 1827–28, 4083–86, 4099, 5650–51, 10126–130, 15866–867, 15900–902, 17203–205
travel to Philippines and South Vietnam, authorization, report, 8601
Veterans Canteen Service, Veterans Administration, examination of financial statements 1965, GAO report, 4496
Veterans homes:
Multi-disciplinary Conference on Domiciliary Care, report, 18134
restoration centers, intermediate care wards, etc., 1st conference on RIND, transactions, 14066
Veterans hospitals:
convalescent and nursing care, programs, review, hearings, 11689
Louis A. Johnson Memorial, designate, report, 16141
Philippine, hospitalization and medical care of veterans, extend program—
hearings, 16195, 17397
law, 17111
reports, 15866, 15877, 16133
prebed and posthospital activity, report of VA committee studying, 14444
readmission of veterans, restrict conditions for reduction of benefits—
law, 5587
reports, 4685, 5767
Veterans hospitals—Continued
restoration centers, intermediate care wards, nursing care home units, domiciliaries, 1st conference on RIND, transactions, 14066
sharing technology and equipment with other hospitals, report, 10128
theological roots for hospital ministry (papers), 16895
treatment of disabilities in addition to those for which hospitalized, report, 10126
Veterans Administration program, operations, 10270
veterans' views on medical care, survey, 11690
Veterans of Foreign Wars of United States:
convention proceedings, 8492
legislative recommendations, 1966, hearings, 8685
Veterans of World War I of United States, Inc.:
convention proceedings, 7059
legislative recommendations, 1966, hearings, 8685
Veterans organizations, legislative recommendations, 1966, hearings, 8685
see also names of organizations.
Veterans preference benefits, *see* Civil service.
Veterinarians:
accredited, duties and responsibilities, 5271
guide, 12585
Agriculture Department opportunities, 14145
employment outlook, 9288
examination announcement, 3988
Veterinary Biologics Division:
biological products produced in licensed establishments, notice, 5278
notices, 1580, 14119
Veterinary instruments and apparatus:
equipment and supplies, Federal item identification guides for supply cataloging, supplements, 2937
NIH standard animal care equipment, 16805
Veterinary medicine:
Bulgarian People's Republic, structure of service, 9089
diseases and operations, standard nomenclature, 11114
education facilities, construction grants and student loan program—
hearings, 11665, 17591
reports, 15943, 17527
internal, development in Hungary, 12141
medical and veterinary parasitology, USSR articles, 7625
opportunities for doctors in USDA, 14145
Veterinary parasitology, *see* Parasitology.
Veterinary supplies, *see* Veterinary instruments and apparatus.
Veterinary zoology, *see* Zoology.
Veto messages, *see* President of United States.
Vette, James I.:
geomagnetic geometry tables, 7725
models of trapped radiation environment, inner zone, protons and electrons, 4835
VFR, *see* Visual flight rules.
VHF, *see* Omniranges.
Vibration:
absorber, synchronous gyroscopic, analytical research, 4806
absorption of high-frequency ultrasonic in binary alcohol-water mixtures, USSR study, 13518
beam and plate, in bending modes using lumped parameters, mathematical model, 9518
clustered launch vehicles, analysis, 1260
effect of charge weight on vibration levels from quarry blasting, 12243

Vibration—Continued
electrical analogies and vibration of linear mechanical systems, 12269
flexural, of conical shells with free edges, 6335
floating ring dampers and hypercritical shafts, behavior and dynamics on flexible supports, 136
Helmholtz wave equation, nonseparable solutions examined for applications, 15523
in-flight, design equations of swept frequency spectrum analyzers, 15196
isolation of marine machinery, USSR study, 2240
labor hygiene in vibrocondensation in concrete, USSR study, 9179
levels transmitted across presplit fracture plane, 1166
longitudinal, of Thor vehicle structure, 17916
multicolor stroboscope pinpoints resonances in vibrating components, 11017
noncontacting vibration transducer has constant sensitivity, 4885
nonlinear flexural, vibrations of thin circular rings, 2438
nonstationary spacecraft, data, spectral analysis, 1191
passive environmental sensor, use in testing sensitivity to stimulation, 3784
rubber-coated bellows improves vibration damping in vacuum lines, 10996
sandwich panels in reduced-pressure environment, characteristics, 15163
ship's plates, caused by screw propellers, USSR study, 2217
sonic, combating on ships, USSR book review, 1047
spherical shell segments, Green's function approach, 16611
tests on vidicons made by improved method, 6368
transverse, of tapered beams, tables of natural frequencies and nodes, 9417
errata, 10936
vibration-dissociation coupling models, effects on nonequilibrium hypersonic flow of nitrogen over wedge, 13828
vidicons, testing performance during vibration, 17905
Vibrators, improve spark erosion cutting process, 13768
Vibrocardiographic system study, 10969
Vice President of United States:
election campaign fund act, report, 17521
official residence, acquire—
hearings, 5706
law, 8462
reports, 553, 5677, 7088
vacancy in office, filling, proposed constitutional amendment, report, 1838
Vick, Allen R., underexpanded exhaust plumes impinging upon perpendicular flat surface, 6443
Vidal, R. J., measurements of nonequilibrium effects in air on wedge-flat-plate afterbody pressures, 2358
Video recording system:
adaptive data compression for signals, 9523
compression of video data by adaptive nonlinear prediction, 13813
Video signal processing system uses gated current mode switches to perform high speed multiplication and digital-to-analog conversion, 16643
Vidicons:
new television camera eliminates vidicon tube, 10986
performance during vibration, testing, 17905
vibration tests made by improved method, 6368
Vietnam:
air war, tactical and operational problems, 2275
American civilians who are fighting shirtsleeves war, 17745
American policy, comments by Moscow Patriarchy of Russian Orthodox Church, USSR study, 10814
anti-Vietnam agitation and teach-in movement, problem of Communist infiltration, staff study, 1885
Armed Forces members—
serving in foreign areas, additional accumulation of leave—
hearings, 14410
report, 12968
voluntarily extending tour of duty in hostile fire area, authorize special 30-day period of leave, reports, 12969, 17509
background information, 7213
chemical warfare agents now employed or contemplated by Pentagon, USSR views, 2195
close air support—
hearing, 4121
subcommittee report, 4122
conflict issue (address), 6629
conflict, substance and shadow, report, 4218
Democratic Republic, *see*, below, North.
geographic aspects of struggle, 15340
heart of problem, U.S. commitment (statements), 9722
into war with a timetable, this is what I saw, 883
Laos boundary, study, 11255
Man nationality, Soviet study, 17778
North—
bridge of Ham Rong in war, 2247
church and state under Communism, 8780
declaration by Voice of Pathet Lao radio, 6167
economy, translations, 3610
finance and credit, 2182
French Communist eyewitness report on war effort, 4689
Nghe An Province, highland peoples, ethnography, 4654
political and sociological information, 3592
Viet Cong, know your enemy, 8222
observations, report, 5637
pocket guide, 8225
postal services of U.S. Armed Forces, on-site inspection, report, 17258
report, 7141
Republic—
agricultural commodities, agreements, 1498, 1505, 5163, 8077, 8080, 11278, 12526, 15349
atomic energy, cooperation for civil uses, agreement application of safeguards by IAEA, 2589
background notes, 9716, 14028
foreign assistance, supplemental, 1966, hearings, 5810
print additional copies, reports, 7193, 10194, 15882
legality of U.S. participation in collective defense, 8059
National Liberation Front forces, French Communist journalist interviewed, 2253
pledge of Honolulu, commitments for government and defenders of South Vietnam, 6630
quiet warriors supporting social revolution, 11253
refugee problems—
hearings, 1947
reports, 7177, 14389
shipping policy review, hearings, 7155, 10255

239-221—67—No. 863——40

Vietnam—Continued
Republic—Continued
television broadcasting, agreement, 8083
trachoma, prevalence, 4628
travel authorization for House Veterans' Affairs Committee, report, 8601
why Vietnam, report, 469
social revolution, Americans as quiet warriors supporting, 10691, 11253
South, *see*, above, Republic.
struggle to be free (address), 9721
38th day, 8058
today (address), 8056
U.S. economic and military assistance programs, investigation, report, 15950
U.S. views, interviews with Secretary Rusk and Under Secretary Ball, 9724
undeclared war, assistance to enemies of U.S., make punishable, hearings, 15994
United States activities, internal audits and inspections, Department of State, Agency for International Development, Department of Defense, GAO report, 13385
Vietnam era veterans readjustment assistance act—
hearing, 16185
report, 17552
war, questions and answers, 108
we welcome others to their ranks, AID programs, 13440
Vietnamese language, Vietnamese-English dictionary, 16425
View from Ranger, 12277
Vigilance, effects of knowledge of results and differential monetary reward on 6 uninterrupted hours of monitoring, 3794
Villagomez, Joaquin U., relief, 17071
Vincent, Thomas L.:
applications of calculus of variations to aircraft performance, 10965
minimum time aircraft trajectories between 2 points in range-altitude space, 17882
Vincze, John, Gemini spacecraft landing systems, 12364
Vine, James D., element distribution in shelf and eugeosynclinal black shales, 10632
Vinson, Carl:
statements, etc., in honor of, print as House document, report, 501
tributes in House of Representatives, 468
Vinti, John P., computation procedure for his accurate reference orbit with inclusion of 3d zonal harmonic, 15170
Vinton, La., motor carrier accident, 12068
Vinyl fabrics, *see* Textiles.
Violence, violent offender, parole decision-making, 14082
Viral aerosols, *see* Aerosols.
Virgin Islands:
agriculture department, directory, 590
census of business, manufactures, and mineral industries, 223
climatological data, 2751
coast pilot, supplement, 6985
dutiable status of watches, etc., amend tariff schedules, hearing, 13208
Governor—
1965 report, 9035
popular election, provide, amend organic act—
hearings, 15975
reports, 10142, 17519
industry, report, findings of fact, and recommendations, 1533
map, United States, inset, 13651
mineral industry, minerals yearbook chapter, 17845
nautical chart catalog, 6988
Office of Government Comptroller, reviews of activities, fiscal years 1963–65, GAO report, 8994
principal electric facilities, map, 7381
Virgin Islands—Continued
reapportionment of legislature, amend organic act—
hearings, 15975
law, 15729
reports, 10138, 13166, 14394
revenue bond borrowing authority, increase, amend organic act—
law, 17133
reports, 13179, 17212
selected services area statistics, 1963 census of business, 15566
social security tax guide for employers, 2116
storm warning facilities chart, 12562
Virgin Islands Soil Conservation District, stored water keeps sugar mill operating (colored poster), 9706
women workers, 12576
Virgin Islands Corporation, 1965 financial statements, examination, report, 6008, 7064
Virginia:
aeroradioactivity survey and geology of area nearest D.C., 9917
census of manufactures, 1963, manufacturing plants, location by county, industry, and employment size, 14258
climatological data, 2751
congressional districts, 90th Congress, 15604
county business patterns, 3916
electric rate book, 17659
landings, fish and shellfish, 3683
annual summary, 16295
life tables, 8054
mineral industry, minerals yearbook chapter, 1149
Northern Virginia Soil Conservation District, contour strips in hunting preserve (colored poster), 9707
peanut handling, shift from bag to bulk, economic implications, 9822
Piedmont, site index prediction for Virginia, loblolly, and shortleaf pine, 8977
postal map, 13944
precipitation data, hourly, 3045
southeastern, chemical composition of rainfall, 13414
Southwest, Lee, Scott, and Wise Counties, economic and resource development, summary, 2611
transit compact, approval—
hearings, 15983
message from the President, 15783
reports, 15891, 16107
women, labor laws, summary, 14093
Virginia pine, *see* Pine.
Virus diseases:
mortality rate of cold-stressed mice challenged with viruses by different routes, 79
plant virus diseases, index, 11346
slow, latent, and temperate infections, workshop and symposium, 13978
Viruses:
and cancer, monographs, reviews, etc., guide and bibliography, 13960
of laboratory rodents, research, 6486
poliovirus and vaccinia virus, radioisotopic labeling, 9871
sugarcane mosaic, strains, 8170
see also Biological products—*also* names of virus diseases.
Visas, *see* Passports.
Viscoelasticity, *see* Elasticity.
Viscosity:
calculation in molten salts (oxides), 7901
coefficients of dilute argon between 100 and 2000° K, 13865
determination by polarographic technic, 5334
eddy, distributions downstream of nozzle exhausting to quiescent air, 16673
effect of low viscosity layer on convection in mantle, 11396

Viscosity—Continued
fire retardant, measured by modified Marsh funnel, 8956
hypersonic laminar viscous interaction effects on aerodynamics of wedges, etc., 15153
Vises (tools):
bench vise adapter grips tubing securely and safely, 6382
Viseu, Arminda P., relief, 13115
Visibility, sea dye marker provides visibility for 20 hours, 13749
Vision, *see* Eyes—Sight.
Visiting housekeepers:
homemaker services for older people, selected references, 5261
International Congress on Home Help Services, proceedings, 15427
Visitors, tax information for visitors to United States, 2126
Visknevskiy, Aleksandr A., biography, USSR, 13498
Visors, two percent gold, evaluation, 14195
VISTA, *see* Volunteers in Service to America.
Visual acuity, *see* Acuity.
Visual flight rules, aviation, air traffic patterns, 10454
Visual instruction, *see* Audio visual instruction.
Visual perception, *see* Perception.
Visual resolution and optical scintillation over snow, ice and frozen ground, 8233
Vital and Health Statistics, United States National Committee on, *see* United States National Committee on Vital and Health Statistics.
Vital statistics:
analytical studies, 5121
birth and death records, United States and outlying areas, where to write, 1447
data evaluation and methods research, 5120, 8004, 9631, 11198, 13999, 15305
data from hospital discharge survey, 18081
data from national health survey, 1438–40, 2543–44, 5122, 6587–89, 8005, 9632–33, 11199, 12488–489, 14001, 15306–310, 18080
data from National Vital Statistics System, 1441–44, 9634, 11200, 16811–812, 18082–83
documents and committee reports, 12486–487, 14000, 18079
provisional, monthly report, 3222
report of 15th anniversary conference of United States National Committee on Vital and Health Statistics, 12487
United States, 1445, 12490, 14002–3
marriage and divorce, 1445
mortality, 14002–3
see also Birth.
Vitamins, manufacture in Japan, 980
Vlisidis, Angelina C., determination of sulfate and sulfide sulfur in rocks or minerals, 12012
Vocational counselors, *see* Counselors.
Vocational education:
adult and vocational research, training, and experimental programs, 633
District of Columbia, hearings, 11648
laws, compilation, 12847
occupational education & training, Federal-State programs, 6768
occupational instructor preparation, course guide, 10430
public community and vocational college, establish in D.C.—
hearings, 17370
report, 17488
review of activities in Federally aided programs, 14563
student loan insurance act of 1965, guaranteed loans, promise and challenge, 7311
training for yesterday's job?, 13589
Vocational education—Continued
vocational-technical program development by States, summary report, 5884
working one's way through tomorrow, 13283
youth we haven't served, challenge of socioeconomically handicapped youth, 8854
see also subject.
Vocational guidance:
girls, consultation, July 20–21, 1964, Women's Bureau and Office of Education with State school guidance officials, 1563
a look at tomorrow's jobs, 9314
occupational outlook handbook, 6257
Vocational rehabilitation, *see* Rehabilitation of the disabled.
Vocational Rehabilitation Administration:
rehabilitating physically handicapped, advisory groups, 14068
report, 16896
research and demonstration projects, 1964, annotated list, 12556
research fellowship program, description of program and procedures for applying for predoctoral, postdoctoral, special fellowships, 1530
Voegelein, L. Belle:
classification, Class S, agriculture, plant and animal industry, fish culture and fisheries, hunting sports, 1100
index to languages and dialects, 4740
Vogler, Raymond D., ground effects on single- and multiple-jet VTOL models at transition speeds over stationary and moving ground models, 4955
Vogt, F. B., effect of bedrest on parameters of physiological function, orthostatic intolerance to passive tilt, 9390
Vogt, William G., transient response from Lyapunov stability equation, 11057
Vohryzka, Frantisek, relief, 8511, 11535, 17410
Voice:
color of the voice, USSR study, 16497
human, recognition by computer, Yugoslavian study, 12171
Volatilization, *see* Evaporation.
Volcanic rocks, *see* Igneous rocks.
Volcanoes:
Hawaiian Observatory summary, 3035
1959–60 eruption of Kilauea Volcano, Hawaii (series), 4523–24, 7488, 12026
volcanic activity on Mars, 5001
Volga Germans in Soviet Central Asia, 14934
Volin, Lazar, Soviet grain imports, 626
Volsky, Jorge A., relief, 8717, 17076
Voltage, high, isolation device for ion-thruster propellant feed, 13838
Voltage dividers, compensated and ohmic measuring, Nikola Tesla Institute, Yugoslavia, 962
Voltages:
dual-voltage power supply has increased efficiency, 4839
peak ac-dc voltage comparator for use in standards laboratory, 5014
ratio detector for millivolt signals, 2454
temperature transducer has high output, is time stable, 1237
Voltmeters, RMS, electrostatic, disclosures on, 7921
Volume and yield tables:
aerial photo stand-volume tables for California timber, 10580
for managed stands with special reference to Black Hills, 13373
topwood, old-field slash pine plantations, 5987
volume tables and equations for young-growth western hemlock and sitka spruce in southeast Alaska, 8960

Volumetric analysis:
titrimetric microdetermination of sulfur in organic phosphorus and arsenic compounds using nitchromazo, USSR study, 13539
titrimetry, report, July 1964–June 1965, 5012
Volumetric system calibrates meters for large flow rates, 1204
Voluntary foreign aid programs, reports of American registered agencies, 6078, 7530
Voluntary Home Mortgage Credit Program, rural home financing, 14535
Volunteer workers:
head start child development centers, selection and recruitment, 4274
patient returns to community, guide for voluntary service program, 11306
summer service in war on poverty, general information, 10406
VISTA, questions and answers, 619
volunteer services for older people, references, 3724
see also Volunteers in Service to America.
Volunteers in Service to America:
amendments to economic opportunity act—
hearings, 14498
reports, 10185, 12945, 16162, 17333
print additional copies, report, 13007
correcting and curing ills of poverty (address), 8417
questions and answers about VISTA, 619
VISTA volunteer (periodical), 16222
Volusia County, Fla., schools, integration program, 13273
Vomaske, Richard F., simulator study to determine pilot opinion of trim changes, etc., for STOL airplanes, 6433
Von der Heydt, Eduard:
art collection, transfer title to Smithsonian Institution—
law, 12828
reports, 5777, 12927
Von Hake, Carl A., United States earthquakes, 317, 17051
von Oberndoff, Elisabeth, relief, 12903
Voprosy psikhologii (periodical):
translations, 6232
VORTAC, *see* Air navigation.
Vortex cone, prerefining pig iron, improvements in desiliconizing techniques, 1160
Vortex flow and erosion in rocket nozzles due to warm-gas injection for thrust vector control, 4971
Vortex motion:
high-level mesovortex, characteristics, USSR study, 14875
short cylindrical chamber, velocity components and radial pressure distributions, experimental profiles, 1254
valve for medium-temperature solid propellants, 7742
Voskhod, *see* Spacecraft.
Voting:
age, projections of population, Nov. 1966 and 1968, 5488, 11470
information bulletin, Armed Forces Information and Education, 5339
information for Armed Forces, 1966, 107
rights act of 1965, first months, Civil Rights Commission report, 1749
where votes are, profile of mid-1960's, rel. to voting habits of future, 14451
Vrzich, Manojlo, *see* Verzich, Manojlo.
V/STOL (vertical or short takeoff and landing), *see* Aircraft.
VTOL (vertical takeoff and landing), *see* Aircraft—Airplanes.

W

W series, 3701
W. P. Franklin Lock and Control Structure, designate, report, 16149
W.S. series, 3006
Waddell, Galen G., in-situ measurement of rock deformation in vein-type deep mine, 9370
Wage and Hour and Public Contracts Divisions:
interpretative bulletins, 5221, 6694, 9761–62, 11310–312, 16899, 18142
publications, lists, 1532, 15416
questions and answers, QA–IND series, 15417
Wage chronology, *see* Wages.
Wagener, Willis W., dwarfmistletoe removal and reinvasion in Jeffrey and ponderosa pine, northeastern California, 2067
Wager, Kermit, relief, 13098, 15690, 15810
Wages:
accrued vacation pay, deductibility, extend time, reports, 17221, 17524
area survey, metropolitan areas—
Akron, Ohio, 14976
Albany-Schenectady-Troy, N.Y., 13597
Albuquerque, N. Mex., 13600
Allentown-Bethlehem-Easton, Pa.-N.J., 10869
Atlanta, Ga., 13604
Baltimore, Md., 6267
Beaumont-Port Arthur-Orange, Tex., 13599
Birmingham, Ala., 13595
Boise City, Idaho, 1092, 17814
Boston, Mass., 4721
Buffalo, N.Y., 9317
Burlington, Vt., 10870
Canton, Ohio, 13596
Charleston, W. Va., 14971
Charlotte, N.C., 13602
Chattanooga, Tenn.-Ga., 1094
Chicago, Ill., 14970
Cincinnati, Ohio-Ky.-Ind., 10871
Cleveland, Ohio, 2299
Columbus, Ohio, 4724
Dallas, Tex., 6262
Davenport, Rock Island, Moline, Iowa-Ill., 4725
Dayton, Ohio, 9320
Denver, Colo., 7668
Des Moines, Iowa, 9326
Detroit, Mich., 9325
Fort Worth, Tex., 6264
Greenville, S.C., 13605
Houston, Tex., 16533
Indianapolis, Ind., 7667
Jackson, Miss., 9324
Jacksonville, Fla., 10865
Kansas City, Mo.-Kans., 6265
Lawrence-Haverhill, Mass.-N.H., 14975
Little Rock-North Little Rock, Ark., 1093
Los Angeles, Long Beach and Anaheim, Santa Ana, Garden Grove, Calif., 12212
Louisville, Ky.-Ind., 9328
Lubbock, Tex., 13606
Memphis, Tenn.-Ark., 9322
Miami, Fla., 7666
Midland and Odessa, Tex., 16532
Milwaukee, Wis., 12213
Minneapolis-St. Paul, Minn., 9319
Muskegon Heights, Mich., 14972
New Haven, Conn., 9318
New Orleans, La., 10867
New York City, 14977
Newark and Jersey City, N.J., 9327
Norfolk-Portsmouth and Newport News-Hampton, Va., 14974
Omaha, Nebr.-Iowa, 4722
Paterson, Clifton, Passaic, N.J., 16530
Philadelphia, Pa., 9316
Phoenix, Ariz., 13598
Pittsburgh, Pa., 10866
Portland, Maine, 6261
Portland, Oreg., 16529
Providence-Pawtucket-Pawtucket-Warwick, R.I.-Mass., 12214
Raleigh, N.C., 2301
Richmond, Va., 6266

Wages—Continued
area survey—continued
Rockford, Ill., 13601
St. Louis, Mo.-Ill., 6260
Salt Lake City, Utah, 9315
San Antonio, Tex., 16531
San Bernardino, Riverside, Ontario, Calif., 6258
San Diego, Calif., 6259
San Francisco-Oakland, Calif., 9323
San Jose, Calif., 4728
Savannah, Ga., 13603
Scranton, Pa., 17815
Seattle-Everett, Wash., 2300
Sioux Falls, S. Dak., 4726
South Bend, Ind., 12211
Spokane, Wash., 14973
Toledo, Ohio-Mich., 10868
Trenton, N.J., 7669
Washington, D.C.-Md.-Va., 4723
Waterbury, Conn., 9329
Waterloo, Iowa, 4727
Wichita, Kans., 4720
Worcester, Mass., 17808
York, Pa., 9321
Youngstown-Warren, Ohio, 6263
chronology—
anthracite mining industry, 16535
Berkshire Hathaway, Inc., 4733
bituminous coal mines, 1091
Dan River Mills, 9336
International Shoe Co., 13608
Massachusetts shoe manufacturing, 6268
Pacific Gas and Electric Co., 10874
Pacific longshore industry, 9334
current developments, 2821
current report in developing countries, how to establish, 12209
deferred increase and escalator clauses, major collective bargaining agreements, 7664
deferred increases and wage escalation, 1966 wage calendar, 4737
earnings series, manufacturing, 1088
summary, 9204
earnings, statistics, 1909–65, United States, 6256
employee earnings and hours—
nonmetropolitan areas of South and North Central regions, 17816
small metropolitan areas of South, 16539
employee earnings, retail trade, June 1965—
apparel and accessory stores, 13614
automotive dealers and gasoline service stations, 13613
building materials, hardware, and farm equipment dealers, 13611
food stores, 13612
furniture, home furnishings, and household appliance stores, 13615
general merchandise stores, 12219
miscellaneous retail stores, 13616
summary release, 14984
employment and earnings (periodical), 2881
employment and earnings, and monthly report on labor force (periodical), 4734
employment and earnings statistics, 1939–65, for States and areas, 13593
equal pay facts, 14095
factory workers, earnings and weekly hours, 4736
fair labor standards act—
coverage, construction industry, 9761
equal pay for equal work, 5221, 18142
forestry or logging operations, 11312
full-time students employed in retail or service establishments, 14072
general coverage, 11310
handy reference guide, 16897, 18140
motor carrier employees, extending overtime provisions, 5222
Wages—Continued
fair labor standards act—continued
nursing homes, etc., minimum wage, and overtime provisions, 5223
overtime compensation, 16899
overtime pay, computing, 6693
farm labor developments, 2911
employment and wage supplement, 2912
Government employees, back pay act of 1966—
hearing, 5823
law, 7044
reports, 7078, 7179
hourly—
index for hydraulic turbine establishments, 3056
indexes of change for shipyards, 3057
hours and earnings, labor force monthly report, 3218
industry surveys—
banking, 2302
candy and other confectionery products, 16537
cigarette manufacturing, 4732
communications, 4729
contract cleaning services, 12220
cotton textiles, 14979
fabricated structural steel, 2298
fluid milk, 4719
footwear, 13617
hosiery, 1090
machinery manufacturing, 7670
nonferrous foundries, 10873
nursing homes and related facilities, 9335
paints and varnishes, 17812
paperboard containers and boxes, 9331
petroleum refining, 17813
sawmills and planing mills, southern, 17811
synthetic textiles, 17809
West Coast sawmilling, 2296
women's and misses' coats and suits, 13619
wood household furniture, except upholstered, 10872
manufacturing industry, developments, summary release, 3684
mental health, 1966–67, trainee stipends in social work, 11107
minimum—
American Samoa industries, 5218
civil service examination announcement, amendment, 291
District of Columbia law, amend, report, 480
hired farm workers, 5220
impact of 1961 increases and 1966 proposals, 10363
progress and current status, 5249
Puerto Rico—
retailing, wholesaling, and warehousing industry, 5217, 5225
rubber products industry, 5219
raise and extend fair labor standards act coverage—
hearings, 7163, 8680, 10266
law, 15768
reports, 7103, 10144, 15899, 16104
retail trade, 5224
State laws, 5251, 11326
State laws and orders, analysis of rates and coverage, 5233
State legislation, weapon in war on poverty, 15431
what good State bill does, 11331
naval installations, relief of civilian employees erroneously paid, law, 7034
net spendable earnings, monthly release, 3258
occupational earnings and wage trends in metropolitan areas, 6273, 10880, 16541
old-age, survivors, and disability insurance covered workers, statistics, 1464

Wages—Continued
preferential allowances paid to contractor employees at Hanford Works, Richland, Wash., AEC, GAO report, 10623
publications, list, 3262
railroad employees, class 1 railroads, 3685
severance pay benefits for Federal employees, regulations, advance edition, 5703
severance pay plans, operation and implications for labor mobility, 7665
State—
equal pay laws, reasons for, 12573
payment and collection laws, summary, 9198, 12203
sugar, rate determination, 3547
telephone company employees, FCC rules and regulations, 2927
union—
building trades, 13609
local-transit operating employees, 9333
motortruck drivers and helpers, 13610
printing industry, 12216
wage board system, report, 10261
wage calendar, 1966 agreement major expirations and reopenings, 4737
wage-price guideposts, strengthening—
hearing, 17380
report, 17289
wages and production cost in Soviet machine building, 2177
wages and related benefits, metropolitan areas—
occupational earnings, supplementary practices, 4718
United States and regional summaries, 12210
within-grade increases, supervisor development program, 6829
women—
earnings in low-income families, 2634
equal pay—
action for, 5232
getting facts, 5242
what principle means, questions and answers, 2633, 16913
equal pay laws, 1965—
California, 5236
Missouri, 5237
New York State, 5238
North Dakota, 5239
Rhode Island, 5240
West Virginia, 5241
what you want in State bill, 5252
workers covered by State unemployment insurance laws, 2882
Wages and Industrial Relations Division, publications, list, 3262
Wagman, D. D., selected values of chemical thermodynamic properties, 9553
Wagner, Bartlett, A., planetarium, elementary-school teaching resource, 17887
Wagner, C. A.:
drift of inclined-orbit 24-hour satellite in earth gravity field through 4th order, 15136
earth's longitude gravity field as sensed by drift of 3 synchronous satellites, 16658
equatorial ellipticity of earth as seen from 4 months of Syncom II drift over western Pacific, 12336
equatorial ellipticity of earth from 2 months of Syncom II drift over central Pacific, 12337
gravity potential and force field of earth through 4th order, 15137
probable influence of gravity in determination of equatorial ellipticity of earth from drift of Syncom II over Brazil, 9513, 13802
Wagner, Mary H., shark fishing gear, 10526
Wagoner, Ralph E., data reduction for filter spectroradiometry, 1249
Wahlgren, Harold E., estimating tree specific gravity of Maine conifers, 10595A
Wahrhaftig, Clyde, physiographic divisions of Alaska, 10642
Waiakea Arboretum, survival and 5-year growth, 10576
Wainscott, Forest H., Syncom III launch, 7886
Wait, J. R., radio science, 3103, 3449
Wake turbulence, 2011
Walberg, Gerald D.:
analytical study of diffusion-controlled char oxidation and its effect on steady-state ablation of plastic materials, 13847
effect of nylon grain size on ablation of phenolic nylon, 13810
Walburg, Charles H., carp, river carpsucker, smallmouth and bigmouth buffalo in Lewis and Clark Lake, Missouri River, 17676
Waldman, Saul:
experience under sick-pay plans in Great Britain, 18101
income loss protection against short-term sickness, 1472
old-age benefits for workers retiring before age 65, 1470
Wales:
mortality trends, changes, 5121
plant quarantine requirements, 14116
Walk-in-space, *see* Outer space.
Walker, C. J., evaluation of ethylene as gas tracer in underground gas storages, 10929
Walker, Charles R., relation of chemical structure to fish toxicity in nitrosalicylanilides, etc., 14674
Walker, Forrest E., forms of sulfur in U.S. coals, 15010
Walker, George W., mineral resources of Mount Jefferson, primitive area, Oreg., 10636
Walker, Jack R., relief, 7024, 8692
Walker, Robert H., selling in Belgium, 12781
Walking, *see* Gaits.
Wall, Brian:
Oregon log production, 4480
Washington timber harvest, 5998
Wallace, L. E., stem sawflies of economic importance in grain crops, 5298
Wallace, Roberts M., geology and mineral resources of Pico de Itabirito district, Minas Gerais, Brazil, 4518
Wallace, Sarah L., quarterly journal of Library of Congress, 3441
Waller, Roger M., effects of earthquake of Mar. 27, 1964 in Homer area, 13410
Walls, seawall, Texas City, Tex., stability, hydraulic model investigation, 11898
Walnut Creek, project, drop structures, hydraulic model investigation, 13296
Walnuts:
black walnut culture, papers, 17681
black walnut logs, export control, hearings, 4214
more timber faster, 8951
Walsh, Thomas M., effects of Gemini left-hand window on experiments requiring accuracy in sighting or resolution, 17927
Walsh-Healy public contracts act, *see* Government contracts.
Walter F. George Lock and Dam, relocation of railroad facilities, Engineers Corps, Army, GAO report, 6024
Walter Reed Army Institute of Nursing, educational opportunities for students interested in field of nursing, 3844
Walter Reed Army Medical Center, military construction, authorization, report, 17253
Walters, Jack G., light oils from fluidized carbonization, 6312
Walton, Paul T., oil and gas lease, reinstate, report, 17491
Walwick, E. R., detection of protein in trace amounts, 9435
Walz, Joseph E., thermal distortions of thin-walled paraboloidal shells, 15161
Wampfler, Gene L., light-transmitting and light-scattering properties of smoke, 17683
Wan Kin Chung, *see* Won, Chung K.

Wanek, Alexander A., geology of northwest quarter of Anaconda quadrangle, Deer Lodge County, Mont., 12013
Wang, Han-chung, tables of natural frequencies and nodes for transverse vibration of tapered beams, 9417
Wang, James T.-S., axisymmetric response of cylindrical, etc., shells to loading, 15069
Wang, K. P.:
  mineral industry of—
    Japan, 4769
    mainland China, 2332
    Mongolia, 1133
  regional mineral industry review of Far East, 7705
Wanhainen, John P., effect of propellant injection velocity on screech in hydrogen-oxygen rocket engine, 7884
Wann, E. V., commercial growing of sweet corn, 14135
War:
  innovation and reform in warfare, 14166
  Vietnam—
    assistance to enemies of U.S. in time of undeclared war, make punishable, hearings, 15994
    questions and answers, 108
  world nuclear-rocket war, essence, USSR 1040
War claims, *see* Claims.
War on poverty, hometown fight, community action program, 7285
War relief, benefits for employees of contractors, 13285
War risk insurance:
  aircraft coverage, extend authority until 1970—
    law, 11556
    reports, 10315, 11622
War that never ends, fact about pest control, 17735
Ward, Cordelia T., wage calendar, 1966, major agreement expirations and reopenings, 4737
Ward, Edward J., remarks, May 18, 1966, 10037
Ward, Helen L.:
  physiological studies employing radioisotopes, 5401
  radioisotopes in medicine, 159
Ward, Porter E., hydrology of Guam, 4519
Ward, Robert D., relief, 14352
Ware, Glen C., platinum-group metals, 17851
Ware, Robert L., jr., basic data on economy of Kenya, 346
Warehouse examiners, examination announcement, 5523
Warehousemen, ten rules for food warehousemen (poster), 13351
Warehouses:
  affiliated produce, reducing operating costs, 5287
  commercial service plan, Defense Dept., general merchandise and refrigerated storage, 17609
  industry in Puerto Rico, minimum wage rates for newly covered employment, data, 5217, 5225
  packaging product at central warehouse, 1589
  refrigerated, capacity, 18127
  space, census of business, 1963, wholesale trade, subject report, 8326
Warfare, *see* Air warfare—Atomic warfare—Guerrilla warfare—War.
Warfield, Robert S., sampling and coking studies of coal from Kukpowruk River area, Arctic northwestern Alaska, 12240
Warm Springs, Ga., climatic summaries of resort areas, 5898
Warm Springs Reservation, timber, potential for intensive management, 13424
Warner, O. Ray, cost of secondary school guidance services, 4297
Warnick, Donald C., growth rates of yellow perch in 2 North Dakota lakes after population reduction with toxaphene, 11977
Warning systems:
  civil defense, program materials for successful meetings, 8383
  engine failure, single-engine turbine helicopters, protective requirements, 3838
Warnke, Paul C., nomination, hearing, 17571
Warp reduction, news and views of this kiln drying business, 4439
Warrant officers, *see* Coast Guard Reserve.
Warren, Ohio:
  area wage survey, 6263
  commodity transportation survey, production area series, 8344
Warrior River, Ala., lock filling and emptying system, Holt Lock and Dam, 1993
Warsaw Pact, role in Soviet bloc affairs, 10351
Warsaw University, nuclear chemistry, Hungarian scientist reports on studies, 12104
Warshay, Marvin, shock-tube investigation of bromine dissociation rates in presence of argon, neon, and krypton, 13821
Warships:
  loan to China—
    law, 8474
    report, 4172
  loan to friendly foreign countries, law, 426
  loan to Spain, agreement, 15353
  U.S., recognition identification guide, 11158
Warwick, E. J., influence of environment on growth and reproduction of cattle, 5268
Warwick, R.I.:
  area wage survey, 12214
  commodity transportation survey, production area series, 8339
Washers (metal):
  heat-sink contract with beryllia washer improved by mounting, 7798
Washichek, Jack N.:
  water supply outlook and Federal-State-private cooperative snow surveys—
    Colorado and New Mexico, 3688
    Colorado and Wyoming, 9713
    Colorado early season snow report, 2572
Washington, George, 5-cent regular postage stamp, 5087
Washington, George, Memorial Parkway, *see* George Washington Memorial Parkway.
Washington, N.C.:
  and vicinity, hurricane survey, engineer report—
    departmental edition, 10438
    document edition, 10104
Washington, D.C., *see* Capital of United States—District of Columbia.
Washington Channel:
  bridge, construction, maintenance, and operation, with visitor facilities, hearing, 17598
  bridge, designate Francis Case Memorial Bridge, report, 479
Washington Metropolitan Area Transit Authority:
  compact, approval—
    hearings, 15983
    message from the President, 15783
    reports, 15891, 16107
Washington Monument, flags, raising and lowering ceremonies, provide, report, 12939
Washington National Airport, high-speed ground transportation to, study, report, 13153
Washington State:
  census of manufactures, 1963, area statistics, 14252
  climatological data, 2751
  coast pilot, supplement, 5534
  county business patterns, 242, 5471
  eastern, relation of Rhizobia to alfalfa sickness, 6709

Washington State—Continued
electric rate book, 2022
insect outbreaks, 787
Kittitas County Soil and Water Conservation District, irrigation water keeps the West alive (colored poster), 9708
land in Columbia River at the mouth project, retrocede jurisdiction to—
hearing, 13018
law, 11561
reports, 8742, 10180
life tables, 18055
manpower use in wood-products industries, 10603
manufacturing plants, location by county, industry and employment size, 1963 census, 16997
mineral and water resources, 7218
mineral industry, minerals yearbook chapter, 1150
postal map, 13945
precipitation data, hourly, 3045
recreational opportunities, study team report, hearings, 14488
print additional copies, reports, 10195, 10291, 14399
southwest, timber resource statistics, 5999
surface water records in Pacific slope basins to Dec. 31, 1963, index, 2099
timber harvest, 5998
water supply outlook and snow surveys, 3694
weather stations, decadal census, 4346
western, blacktail deer and Roosevelt elk, bibliography, 10616
Yakima basalt and Ellensburg formation of south-central area, 13402
Wasicko, Richard J., application of approach speed criteria derived from closed-loop pilot-vehicle systems analyses to ogee wing aircraft, 15072
Wasko, Robert A., wind-tunnel investigation of thermal and pressure environments in base of Saturn S–1C booster from Mach 0.1 to 3.5, 16678
Wasserbauer, Charles A., cold performance evaluation of radial-inflow turbine designed for Brayton-cycle space power system, 4977
Wasserbauer, Joseph F., 5-centimeter-diameter electron-bombardment thrustor with permanent magnets, 15199
Wasson, Tex.:
crude oil, presence of thienothiophenes in Wasson, Tex., crude oil, 12251
sulphur compounds, crude oil distillate boiling from 111° to 150° C, analysis, 12257
Waste (economics):
USDA's achievements in combatting war on waste (remarks), 9837
Waste disposal, *see* Radioactive waste disposal—Sanitation—Waste products.
Waste products:
disposal—
industrial wastes by Federal installations, report, 12913
sanitary and industrial waste sewers, Army technical manual, change, 5369
industrial waste—
sanitary engineering, Army technical manual, 5370
synthetic textile industry, guide, 2533
mineral by-products from saline waters, 17737
pollution treatment works, construction assistance, hearings, print additional copies, report, 5758
solid waste disposal, research—
amendments, description, 2107
laws, 396, 7999, 13049
water renovation, waste treatment research, Lebanon facility, general information, 17670
see also Scrap.
Watanabe, Stella K., personal finance and investment, 5322
Watanabe, Yoshiko, *see* Ridgely, Kazuyo W.
Watch repairmen, *see* Watchmakers.
Watchcases, census of manufactures, industry report, 3904
Watches, *see* Clocks and watches.
Watchmakers, repairmen, employment outlook, 9289
Water:
absorption of high-frequency ultrasonic vibrations in alcohol-water mixtures, USSR study, 13518
acid mine, application of saline water conversion processes, 16374
agricultural management in India, 10683
Alabama, used in mineral industry, 15033
Arizona, water table characteristics under tamarisk, 4453
atmospheric, authorize research to increase yield, hearings, 13220
balance, USSR studies, 7626
bond sales, 11964
brackish water conversion demonstration plant—
Roswell, N. Mex., reports, 9036–37
Webster, S. Dak., report, 4555
bulk, surface-chemical displacement from solid surfaces, 16756
cleanup and confirmation of identity of pesticide residues by thin-layer chromatography, 14113
cold, tests of USAF anti-exposure suits, 76
Colorado, early season snow report, 2572
Columbia River basin—
discharge at gaging stations, etc., 3543
resources, cooperative development, agreement with Canada, 2584
storage in major power reservoirs, monthly report, 3543
condensed, in thunderstorms, measurements, 15421
conservation—
abstracts of materials published, 9775, 14101
conservation through research (remarks), 3769
fund, 1st year and half, 13255
Great Plains program, progress report, 1597
needs broaden after 30 years, 15468
new dimensions (remarks), 1607
scientific careers in Agricultural Research Service, 1591
conservation districts, tax treatment, report, 17562
data records, review of procurement for implementing automation, Geological Survey, GAO report, 13381
Delaware, general information, 6039
desalting by crystal hydrate method, USSR study, 2202
displacement, measures human body density and fat of adult male, 14235
distribution systems, Army technical manual, 9905
efficiency of gas displacement from water-drive reservoir, 7708
electrochemical demineralization with carbon electrodes, 10674
Federal grant assistance, as provided under housing and urban development act of 1965, 4541, 6049
Federal-State cooperative snow surveys, etc. Colorado and New Mexico soil moisture stations, list and location, 8029
Federal-State-private cooperative snow surveys, Colorado and Wyoming, special report, 9713
focus on clean water, action program for community organizations, 8932
forced convection boiling burnout for water in uniformly heated tubular test sections, 8288

Water—Continued
fresh—
discharge-salinity relations in tidal Delaware River, 10647
relation of salt water (series), 10648
geochemistry of water (series), 13414
Georgia, use, occurrence, problems, etc., 827
ground water—
artificial recharge (series), 13416
Atlantic Coastal plain flow patterns, 12022
Aurora area, St. Louis County, Minn., 7491
changing pattern of development on Long Island, N.Y., 9016
Huerfano County, Colo., 7490
Las Vegas basin, Nev., available water supply, 828
research in United States, 13405
safety from radioactivity from nuclear explosion, Project Dribble, 5416
southeastern States, 4528
Tabulbah area, Tunisia, occurrence, chemical quality and use, 16362
upper Pawcatuck River basin, availability, 17730
utilization in Santa Maria Valley area, Calif., 9024
White Sands Missile Range and vicinity, northern part, 829
has United States enough water?, 4527
hot, distribution systems, maintenance manual, 5255
Humboldt River Valley near Winnemucca, Nev., 9023
immersion technique for study of mobility of pressure-suited subject under balanced-gravity conditions, 4900
information resources in U.S., directory, 16544
interlamellar, migration and crystallization during freezing and thawing of Wyoming bentonite, 8243
interstate carrier, supplies, by States and Public Health Service regions, inventory, 15285
ionite method applied to obtaining desalted apyrogenic water, USSR study, 7633
local turbulent heat transfer in entrance regions of tubes with various unheated starting lengths, 1264
Lompoc subarea of Santa Ynez River basin, suitability of irrigation water and changes in ground-water quality, 4529
low, forecasting runoff of mountain rivers in central Asia, USSR study, 6216
masses, general circulation, USSR study, 16439
mechanism of Boule flotation, 16375
modular porous plate sublimator requires only water supply for coolant, 16632
multiple-purpose projects, uniform policies with respect to recreation, etc., and cost allocation, report, 1832
municipal facilities, inventory 1963, statistical summary, 2540
natural, spectrographic analysis (series), 17726
Nevada, fall summary, 16834
notes on hydrologic activities bulletin, 17736
organic substances in water (series), 12030
Pacific Northwest—
annual peak discharge at selected gaging stations, 14745
current discharge at selected stations, 3543
month-end storage in major reservoirs, 3543
water resources—
summary, 3308
weekly runoff report, 3309
Water—Continued
production in polar ice cap by utilization of waste engine heat, 8247
Public Health Service supply and pollution control program, 1410
quality—
act of 1965, general information, 4540
New Jersey streams, characteristics, 12031
Potomac River estuary, 14749
radiochemical, analysis in reactor, chromatographic separation, USSR study, 14852
radionuclide analysis, 12465
rain traps for intercepting and storing for livestock, 14133
renovation pilot plant, Lebanon facility, general information, 17670
requirements and uses—
Nevada mineral industries, 12234
New Mexico mineral industries, 2319
research, selected summaries, 14648
resource development proposals, Interior Dept. to investigate feasibility—
hearings, 11810
law, 15739
reports, 13151, 17214
resources—
administrative regions of Azerbaydzhan SSR, estimate, 14892
China, plans and prospects for development, 889
conservation, code of Federal regulations, 8921
cooperative, research and training, report, 6057
Dayton, Ohio, area, 9022
Fort Huachuca Military Reservation, southeastern Arizona, 13417
Gunpowder Falls, Md., uses today and tomorrow, 6041
Humboldt River Valley, 2106
investigations, selected techniques, 12032
Johnson County, Wyo., northern and central, 12028
lower Colorado River, Salton Sea area (series), 16360
Mississippi embayment (series), 6032, 10641
Mississippi River, upper, comprehensive basin study, 7331
national data network, 7483
national problems and programs, comprehensive review—
hearings, 11811
report, 11745
Sheridan County, Wyo., 12029
socio-economic aspects, bibliography, 13427
technical publications, 8010, 16817, 18088
Texas and New Mexico high plains, 5266
United States, selected references, 2093
Washington State, 7218
Waterbury-Bristol area, Conn., 823
Winnebago County, Wis., 10649
resources research—
establish centers, etc., amend act, hearings, 7152
Federal program, 11215
Federal ten-year program, 6596
more adequate program—
law, 8480
reports, 8550, 8569
respiratory water loss, effects of reduced barometric pressure, 3814
runoff in playas, management, etc., 15435
safeguarding from agents of mass destruction, USSR study, 891

Water—Continued
saline—
corrosion mechanisms, research using reversible and irreversible electrodes, 12052
demineralization by environmentally modulated adsorption, 4551
mineral by-products, 17737
research program, hearings, 8671
saline conversion—
combination nuclear power and desalting plant, feasibility studies, 5412, 6863–64
communities for demineralization applications, survey, 7514
conceptual design of 50 million gallon per day desalination plant, 846–847, 2111, 6055, 6058–59, 9034, 10662–664, 12042–43, 12045, 12055, 13430
conceptual design of 150 million gallon per day desalting plant, 16370
demonstration plant, Freeport, Tex., annual report, 12049
design study of reverse osmosis sea water conversion plant, 9038
engineering data book, 850
engineering evaluation of factors affecting quality of water sources available for saline water conversion plants, 13435
freezing and reverse osmosis, research, 7516
mechanism of electrode demineralization, 6067
membrane technology, bibliography, 6066
necessity for research (remarks), 7510
nuclear energy for desalting, 15548
nucleation and growth of ice crystals, 4552
processes, application to acid mine waters, 16374
report, 16371
reverse osmosis systems, 9042
scale control for distillation plants, 9043
structure and properties of reverse osmosis membranes, 2114
thermophysical properties, saline water systems, 12054
saline water research and development progress reports, 851–853, 2114, 4550–58, 6063–67, 7512–16, 9036–44, 10671–678, 12048–54, 13435, 14770–774, 16372–378, 17737–740
sealed fluid, gas ingestion and sealing capacity of helical groove fluid film seal, 7866
solute and water transport across biologic membranes, 14774
southern Nevada project, amend sec. 6 of act—
law, 12835
reports, 8730, 10178
spray protects stored logs in Hilo, Hawaii, 10574
static, removal from fuel cells, reaction heat used, 4850
steady-state performance of modified Rankine cycle system, 6470
supplies and demands, estimates and projections to year 2000 of needs of 19 major drainage basins, 4527
supply—
Arizona, 9021
atom quenches thrist, USSR study, 1069
available, Las Vegas ground-water basin, Nev., 828
Chesapeake Bay-Susquehanna River basins project, 16291
Colorado River, watershed conditions affecting, 3564
general considerations, technical manual, 1653
protecting at its source, 6767
publications, 5117
Water—Continued
supply—continued
recharge studies on High Plains in New Mexico, 10650
Soviet conferences, 10713
supply and forests, general information, 16922
western, U.S. fall summary, 18103
supply outlook—
Arizona, 3687
Colorado and New Mexico, 3688
Idaho, 3689
Montana, 3690
Nevada, 3691
Oregon, 3692
Utah, 3693
Washington State, 3694
western United States, including Columbia River drainage in Canada, 3695
Wyoming, 3696
surface layer, thermal radiation sounding from radiation of heat, 16411
surface water—
chemical quality, Heart River drainage basin, N. Dak., 14755
organic acids in naturally colored waters, 12030
quality—
Ohio River and St. Lawrence River basins, 832
United States, 6037, 10652, 12033, 14756, 16364
western States, irrigation, 6044
records to Dec. 31, 1963, index—
Alaska, 2100
Hudson Bay and upper Mississippi River basins, 2098
North Atlantic slope basin, 4515
Ohio River basin, 2096
Pacific slope basins in Washington and upper Columbia River basin, 2099
St. Lawrence River basin, 2097
south Atlantic slope and eastern Gulf of Mexico basins, 2095
trace organic materials, determination, 6065
use in—
mineral industry, 6290
petroleum and natural gas industries, 6289
vapor jets, measured performance for altitude control systems, space vehicle, 13846
water and sewer facilities grant program—
guide, 6048
HUD information series, 6049
water and slush, ground-run tests with bogie landing gear, 13827
water for peace, international conference, organize and hold in U.S., 1967—
hearing, 13033
report, 12959
water in Flatland (remarks), 14753
water-injection profiles, changing by selective plugging, field study, 4802
water resources of industrial areas (series), 823
water-resources reports, announcement, 2679
water resources review (periodical), 3686
water supply and pollution control, environmental health series, 9624
water supply of Indian reservations (series), 824
water supply papers, 823–832, 2105–6, 4526–30, 6037–44, 7490–91, 9021–25, 10647–652, 12028–33, 13414–417, 14754–756, 16362–364, 17725–731
well drilling in United States, regional trends, 14750
western development, summary of resources, projects, plans, and studies relating to western and midwestern U.S., 7236

Water—Continued
wetting of gold and platinum, 9595
White Sea, active layer, temperature, method of calculating, USSR study, 12157
see also Sea water.
Water birds:
hunting, possession, transportation, importation in Alaska, Federal regulations governing, 14673
migratory, Federal regulations, hearings, 17390
status report, 7443
Water carriers:
class A and B, revenue and traffic, quarterly, 3475
operations, exemptions from certain provisions of shipping act, 1916, reports, 14456, 17293
transport statistics, 6101
Water Conservation Month:
designate—
law, 428
report, 555
Water fleas, marine cladaceran Penilia avirostris observations in northwestern Atlantic waters, 7444
Water fowl, *see* Water birds.
Water pollution:
adequacy of technology for pollution abatement—
hearings, 17394
report, 13060
Belorussian SSR, study, 13533
biological problems, 3d seminar, 9624
building for clean water, progress report, 7427
Chesapeake Bay-Susquehanna River basins project for water supply and water quality management, 16291
clean rivers restoration act of 1966, pollution control and abatement in selected river basins, program—
analysis of bill, 8679
hearings, 10371, 13058
reports, 13150, 15909, 15925, 17324
community sewage treatment needs under construction grants program, 7429
conference, pollution of navigable waters of Detroit River and Lake Erie and their tributaries in Michigan, proceedings, 5103
control—
Federal program, 5960
Great Lakes region, hearing 15974, 17381
Missouri-Souris-Red River basins, comprehensive program, 17669
necessity is now (remarks), 14768
publications, 5117
research and training grants—
awards, 1446
publicaitons and reports, index, 10517
Southeastern comprehensive project, 14649
control act, amend—
analysis of bill, 8679
hearings, 10371, 13058
print additional copies, report, 5758
reports, 13150, 15909, 15925, 17324
control act, as amended, text, 7428, 13409
control and abatement—
disposal of sewage and industrial wastes by Federal installations, report, 12913
steps toward clean water, 7235
tax incentives and effluent charges, views of Governors, report, 7092
control functions, transfer—
hearings, 8669, 10350
message from the President, 5613
report, 8639
fish kills, 13332
Interior Department playing vital role in war against (remarks), 13434
Water pollution—Continued
interstate waters, of Grand Calumet River, Little Calumet River, Calumet River, Wolf Lake, Lake Michigan and tributaries, conference—
proceedings, 7493
technical session, 11962
conclusions, 11961
Klamath Basin study, 8933
Lake Erie and tributaries, conference, proceedings, 11963
Mahoning River and tributaries, interstate waters, conference, proceedings, 6572
need for water quality control (remarks), 10667
oil industry (remarks), 7511
preserving our natural heritage, message from the President, 5612
Public Health Service control program, report, 1419
radioactive, in Colorado River Basin, hearing, 11832
seas, by oil, international convention for prevention, amendments, implementing—
law, 15730
reports, 12911, 14464
separating storm and sanitary sewers in urban renewal, report, 15847
STORET II, storage and retrieval of data for open water and land areas, 17671
storm water, program to combat pollution, 13333
surveillance system, stations, common diatoms, guide, 13331
water supply and pollution control, environmental health series, 9624
Water Pollution Control Advisory Board:
transfer—
hearings, 8669, 10350
message from the President, 5613
report, 8639
Water power:
resource appraisals for hydroelectric licensing, planning status report—
Housatonic River basin, 4384
Kennebec River basin, 4385
Penobscot River basin, 4386
Piscataqua River basin, 4387
Presumpscot River basin, 4387
Saco River basin, 4387
resources—
Nehalem River basin, Oreg., 826
sites in Alsea River basin, Oreg., 17727
United States (series), 826, 17727
Water purification:
effect on build-up of radioactive products of corrision in pressurized-water reactor, 10745
equipment, Federal item identification guides for supply cataloging, supplements, 2935
how to purify and disinfect water with simplest means, USSR study, 6228
unit, Erdlator trailer mounted, rigging, airdrop, 8268
Water Resources Council, appropriations, 1967, public works, hearings, 10229
Water Resources Research Committee, report, 6596
Water Resources Research Office, appropriations, 1967, hearings, 7113
Water stills, *see* Stills.
Water supply, *see* Water.
Water Supply and Pollution Control Division, activities of Basic and Applied Sciences Branch, report, 1410
Water systems:
bond sales, 11964
corrosion studies, USSR, 924
serving rural areas, FHA insured loans, general information, 6769
sewage and water works construction, contract awards, 16292

Water vapor:
atmospheric, use in measurements of brightness of earth, USSR study, 16408
electrolysis unit, design and development, 16613
TIROS IV radiation data tropospheric water vapor content and surface temperatures, 16606
vertical distribution of water vapor over Kwajalein Atoll, Marshall Islands, 12440
Waterborne commerce, *see* Commerce.
Waterbury, Conn.:
area wage survey, 9329
commodity transportation survey, production area series, 8340
Waterbury-Bristol area, water resources, 823
Watercraft, *see* Ships.
Waterflooding, *see* Petroleum.
Waterfowl, *see* Ducks—Water Birds.
Waterfront operational facilities:
inspection, repair and preservation of structures, marine biology handbook, 5256
Navy design manual, changes, 1569
Waterloo, Iowa, area wage survey, metropolitan area, 4727
Waters, William J., columbium-modified NASA TAZ-8 superalloy, investigation, 15188
Watersheds:
burned, emergency revegetation to rehabilitate in southern California, 10605
economic and resource development, summaries—
Bear Creek, 2602
Elk River, 2606
Yellow Creek, 2614
loans, 59
management research, bibliography, 10601
projects, miscellaneous, hearings, 4119
protection and flood prevention act, amend—
hearings, 4118
law, 1788
reports, 495, 556
small flood routing, numerical techniques, 8125
treatment, effects on streamflow, estimating, 8171
work begins on farm, 6763
see also names of rivers, etc.
Waterstops, nonmetallic, water retentivity and tensile strength of splices, 4342
Waterton-Glacier International Peace Park, *see* Glacier National Park.
Waterways, *see* Inland waterways.
Waterways Experiment Station:
contract reports, 4335–36, 8861
instruction reports, 677, 1990
miscellaneous papers, 4337, 7333–34, 8862–63, 10439–441, 11896
performance of sand under tire loads, WES data, dimensionless consolidation, 4336
publications—
available for purchase, 11895
list, 14573
research report, 10442
technical reports, 678–682, 1991–93, 4338–44, 5887–91, 7335–38, 8864–65, 10443–446, 11897–899, 13295–298, 14575–576, 16249–251
Waterweed, aquatic weed control studies, 8010
Watkin, William W., jr., appointment, 11616, 13121, 14335
Watkins, J. R., sets of similarity ratios for thermal modeling, 11072
Watkins, William H., effect of intensity changes in auxiliary stimuli on auditory and visual signal detection, 5317
Watson, Harold, reclaiming gin-loss cotton, 11367
Watson, Harold A., portable methane detectors, effects of gases in mine atmospheres, 9361
Watt, Lois, B., south and southeast Asia, 7322
Watt, William C., materials for Placebo V, 5015
Watts, Gwendolyn M., apparent consumption of industrial explosives and blasting agents in United States, 16562
Wave forms, load-impedance and waveform effects of linear class B audio amplifier output-power capability analysis, 16758
Wave functions:
Helmholtz equation, nonseparable solutions examined for applications, 15523
single particle energy levels and wave functions in nuclear structure calculations, Fortran program, 16720
Wave generators, pneumatic, approximate theories, hydraulic laboratory investigation, 10442
Waveforms, *see* Wave forms.
Waveguides:
earth's crust and subcrustal layer, USSR study, 6154
macroscopic waveguide and waveguide components for optical systems, development, 4804
USSR all-Union scientific session devoted to Radio Day, 13561
Wavelengths, submillimeter, RF absolute power, measured with ferroelectric bolometer, 6377
Wavemeters, use in evaluation of brain potentials, 1021
Waves:
design for optimum wave conditions, Dana Point Harbor, Dana Point, Calif., hydraulic model investigation, 13295
diffraction, 3d all-Union symposium, abstracts of reports, USSR, 2209
multiply reflected waves during vertical seismic profiling, USSR study, 13451
ocean—
direction gage, 8856
surge-action model of Monterey Harbor, feasibility study, 8861
propagation of cylindrical and spherical elastic waves by method of characteristics, errata, 11046
sea, earthquake of Mar. 27, 1964, at Valdez, Alaska, effects, 6036
surface wave rays, calculating and plotting, 13291
wind-wave angular spectrum, USSR study, 16413
see also Breakwaters—Electric waves—Magnetic waves—Pressure waves—Pulse waves—Radio waves—Seismology.
Waxes, Federal item identification guides for supply cataloging, supplements, 2937
Waynesboro, Ga., railroad accident, 12079
Ways and Means Committee, House:
calendar, 3127
committee prints, 533, 1873, 1877, 1937, 4149, 4152, 5712, 7168, 10273, 11691, 14445–446, 17401
hearings, 534, 1876, 4151, 5713–14, 7167, 7169, 11692–693, 15996–997, 17400
legislative history—
H.R. 4750, interest equalization tax extension act of 1965, 4150
H.R. 8000, 17398
H.R. 8371, excise tax reduction act of 1965, 89th Congress, 1875
H.R. 8464, public debt ceiling, 89th Congress, 532
H.R. 12752, 17399

Ways and Means Committee, House—Con.
reports, 1837, 5636, 5648–49, 5658–59, 8553–62, 8605, 8618, 8633, 10140, 10174, 10223, 11617, 11633, 12078–979, 15879, 15932, 15936, 17184–192, 17218, 17221, 17226, 17230, 17282, 17304–307, 17309, 17316–318, 17328–329, 17331, 17334–335, 17337
statements on Federal tax lien act, 7166
Weapons:
against poisons, USSR study, 4595
components, contracts, prices negotiated, Army Dept., GAO review, 8997
Federal item identification guides for supply cataloging, supplements, 2940
German, obsolete, donate to Federal Republic of Germany—
law, 15716
reports, 10141, 13174
machine guns, manual, automatic, and airborne repeating, history, evolution, and development, 1385
mass destruction, defense against in rural area, USSR study, 973
nuclear—
and Atlantic Alliance, bibliographic survey, 8256
and international safeguards (remarks), 171
combined trauma, research, clinical management and planning, review, 12483
defense against, USSR study, 2173
effects, self-teaching materials, 17030
principles, Navy training text, 15248
security covers, procurement and utilization, Atomic Energy Commission and Defense Dept., GAO review, 16349
test ban negotiations, international, Sept. 1962–Sept. 1965, review, 11389
nuclear, nonproliferation—
hearings, 7049
reports, 8747, 10282
radioactive fallout from nuclear weapons tests, conference proceedings, 5384
rigging M28 and M29 systems, Army technical manual, 15518
systems—
air defense artillery, qualification program, Army field manual, 12653
damage assessment measuring effectiveness criteria (paper), 658
systems and other major end items production, policy guidance strengthened on direct procurement of components needed by contractors, Defense Dept., GAO report, 8988
weapons and equipment, recognition guide, Southeast Asia, 6840
Weapons System Evaluation Group, scientific information activities, 13890
Wear, John F., tree marking system improves forest spraying operations, 8952
Wearing apparel, *see* Clothing.
Wease, Dorothy F.:
analysis of human serum lipids for clinical investigation, 1620
simplified test tube method for analysis of total cholesterol and glycerides in human serum, 12640
Weather:
adverse, hampered Lake States pulpwood production, 14702
aviation weather procedures, handbook, 102, 8221, 14198
Colorado Rockies high mountain pass, 4475
daily weather and river bulletin—
Albuquerque, N. Mex., area, 2830
Houston, Tex., area, 2831
Little Rock, Ark., area, 2832
Memphis, Tenn., area, 2833
Montgomery, Ala., area, 2834
New Orleans, La., area, 2835
Sacramento, Calif., area, 2836
Weather—Continued
is it possible to influence?, USSR study, 14797
key to aviation weather reports, 11316
maps—
daily weather map, 2837
synoptic, Northern Hemisphere, 2827
mariners weather log (periodical), 3180
messages, electroluminescence vs teletype readability, information processing, study, 6801
observations, TOS project, 13852
publications, price list, 13951
radar, papers, 1536
radio aids—
Atlantic and Mediterranean area, 2485, 12409
Pacific and Indian Oceans, 5058, 7961, 13899
review, monthly, 3223
Service A schedules, ATS handbook, 104, 6819, 9879, 16953
service A weather reporting sequence, map, 14076
service for merchant shipping, 5230
standard summaries, guide, changes, 2501, 11156
weather and construction industry, general information, 17637
weather and crop bulletin (periodical), 3703
weather and radiological surveillance, Nevada Test Site, Project Handcar, 3848
world records, 1951—
Europe, 14581
South America, Central America, etc., 17638
see also Meteorology.
Weather Bureau:
circular, 8112
cooperative weather observer, 5226
operations, semiannual report, 15422
press releases, 3412
research progress and plans, 9766
technical papers, 5229, 9767, 14077, 16901
Weather control:
law, controls, operations, survey of answers to questionnaire, 16743
methods to modify clouds, experience, USSR study, 14949
modification act of 1966, hearings, 11798, 13198
modification and control, report, 10280
modification, annual report, 5051
modification program, expand, etc., report, 17538
modification to increase yield of atmospheric water, authorize research, hearings, 13220
weather and climate modification, report, 16742
Weather forecasts:
average outlook, monthly, 2699
coastal warning facilities charts—
Canadian border to Eureka, Calif. and Alaska, 11314
Cape Hatteras, N.C. to Brunswick, Ga., 12559
eastern Florida, 7339
Eastport, Me. to Montauk Point, N.Y., 15418
Eureka to Point Conception, Calif., 11315
Hawaiian Islands, 12560
Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 12561
Montauk Point, N.Y. to Manasquan, N.J., 15419
Morgan City, La. to Apalachicola, Fla., 7340
Point Conception, Calif. to Mexican border, 9764
Puerto Rico and Virgin Islands, 12562
computerized at Rumanian Atomic Physics Institute, 14841
forecasting from harmonic periods in precipitation, 9648

Weather forecasts—Continued
key to aviation weather forecasts, 11316
numerical methods, present status, USSR study, 14874
numerical model for short-range forecasting of stratiform cloud cover, USSR study, 14795
radiation prediction, Project Dribble, Salmon event, 5414
short range, numerical method, international training seminar of WMO, European countries, USSR study, 14868
small craft, gale, and whole gale warning facilities charts, 15423–424
synoptic-statistical method for forecasting anomalies of seasonal precipitation, USSR study, 14876
teletypewriter communications system, modernized, technical report system, description, 15384
Weather modification, *see* Weather control.
Weather observers, *see* Meteorological observers.
Weather satellites, *see* Satellites.
Weather stations:
atmospheric electricity, data from system, 5070
cooperative meteorological program, agreement with Mexico, 12530
cooperative program on Guadeloupe Island, agreement with France, 16867
decadal census, Washington, 4346
forecasting air pollution potential, PHS advisory service, 11182
index, 16748
Weathering:
concrete and concreting materials, performance, investigation, 4343
glass reinforced plastics, 7268
porcelain enamels, exposure test, 12380
Weaver, George L-P:
addresses—
Mar. 25, 1966, 7643
Aug. 15, 1966, 13587
Sept. 6, 1966, 16511
Oct. 14, 1966, 16512
Weaver, Robert C., nomination, hearing, 4212
Weaving mills:
broad fabric weaving, current industrial reports, 246
census of manufactures, 1963, industry report, 6861
Webb, Charles A., nomination, hearings, 4215
Webb, James E., national power and prestige in space, 13851
Webb, Tarvin F., feasibility tests of selected stimuli and devices to drive livestock, 8130
Weber, Cornelius I., common diatoms at water pollution surveillance system stations, 13331
Weber, Dean F., relation of Rhizobia to alfalfa sickness in eastern Washington, 6709
Weber, Herman L., soil survey report, Grand Traverse County, Mich., 66615
Webster, S. Dak.:
brackish water conversion demonstration plant, annual report, 4555
electrodialysis plant, feed water quality improvement, pilot study, 14773
Webster County, W. Va., coal, preparation characteristics, 15026
Wechsler, Alfred E., measurements of thermal conductivity of soils, 3817
Wedges:
application of wedge diffraction to antenna theory, 4827
measurements of nonequilibrium effects in air on wedge-flat-plate afterbode pressures, 2358
two-dimensional, hypersonic laminar viscous interaction effects on aerodynamics, 15153
Wedgwood, Ralph J., sudden death in infants, 13904
Weeds:
control in rice production, 5283
control with herbicides, 38
reducing growth around newly planted Honduras pine, effect of plastic mulch, 16327
see also Forbs—Waterweed—Wild garlic.
Weekly:
NOTE.—For all publications which begin with the word "Weekly", *see* subject or name of department, etc., issuing publication.
Weeks, *see* names of special weeks.
Weems, George W., method of analysis of impurities in helium in parts-per-billion range, 12246
Weertman, J., effect of low viscosity layer on convection in mantle, 11396
Weeton, John W., fiber-metal composite materials, 13834
Weevils:
boll weevil control in field experiment with machine designed to destroy shed cotton squares, 14106
pine root collar, description, control, etc., 4438
white-pine—
control, field test procedures for evaluating and scheduling, 792
induced crystallization of white pine resins, 4441
WEFT (wings, engine, fuselage, tail) aircraft recognition technique, *see* Aircraft.
Wegweiser-karten, reisen Sie in eine neue Welt, besuchen Sie die U.S.A., 14062
Wegwijzer U.S.A., 15411
Weidman, Deene J.:
flutter for corrugation-stiffened and unstiffened panels, 7839
flutter of orthotropic panels in supersonic flow, 7840
Weight:
artificial alterations, physiological responses, chronic acceleration studies, 9415
at birth, and survival of newborn, 1443
optimization of straight-finned radiators, design procedure, 15143
Weight control, *see* Obesity.
Weight-handling equipment and service craft, Navy design manual, changes, 1569
Weightlessness:
effects of 9-alphafluorohydrocortisone on dehydration due to prolonged bed rest, 8206
medical problems, 8220
physiological reactions of man, USSR study, 1043
problems for space medicine, USSR study, 4680
role of vestibular organs in exploration of space, 6353
simulation on magnetic-colloid pool-boiling system, 6452
temporary, resulting in psychosensory disorders, USSR study, 17760
see also Zero gravity.
Weightlifting provisions for women by State, 6703
Weights and measures:
glossary of terms, 4382
prepackaged commodities, NBS manual for checking, Spanish translation, 1291
recommended unit prefixes, defined values and conversion factors, 5006
strain gage differential weighting system, 8955
see also Body weight—Metric system.
Weights and Measures, National Conference on, *see* National Conference on Weights and Measures.
Weil, Margaret L., relief, 8711
Weir, G. W., Borden formation (Mississippian) in south and southeast-central Kentucky, 10634

Weir, James E., geology, etc., White Sands Missile Range and vicinity, N. Mex., 829
Weirs, *see* Dams.
Weirton, W. Va., commodity transportation survey, production area series, 8345
Weiss, F. J., world outlook for food irradiation, 5417
Weissbrodt, Sylvia R., annual digest of State and Federal labor legislation, 4704
Weissenborn, A. E., mineral and water resources of Washington, 7218
Weissman, Seymour, effect of luminance on perception of red and green at various retinal positions, 13662
Welch, Lawrence E., soil survey report, Alameda area, Calif., 8030
Welcome to U.S.A.:
English edition, 11305
French edition, 15402
Spanish edition, 15401
Welded joints, *see* Joints.
Welders:
employment outlook, 9290
safe practices for shipyard workers, 7660
supervisor, examination announcement, 9993
Welding:
aluminum, USSR studies, 9103
aluminum, weldable alloy has improved mechanical properties, 17907
argon purge gas cooled by chill box, 9465
complex structures, fracture-safe design, concepts and procedures, 1379
diffusion, results of competition, USSR study, 17794
electrical upsetting of metal sheet forms weld edge, 11040
electron beam, of copper-monel facilitated by circular magnetic shield, 11009
electrosing, USSR studies, 6207
flexible drive allows operations in hard-to-reach areas, 17899
heavy-section ship plate, mechanical properties, 14010
heliarc, of aluminum, improved by back-up bar groove configuration, 17906
inert-gas welding enclosure fabricated from sheet plastic, 1214
inflatable holding fixture permits X-rays to be taken of inner weld areas, 13762
laser beam, heating of bilayer sheet, USSR study, 16463
machines, automatic reel controls filler wire, 11028
marine engineering regulations, 14316
methods, bibliography, 6357
nonhazardous acid etches weld samples, 15108
photosensors used to maintain welding electrode-to-joint alignment, 4890
pressure-welded flange assembly provides leak-tight seal at reduced bolt loads, 11039
residual stresses in steel weldments, 18091
simple device facilitates inert-gas welding of tubes, 9467
Soviet conferences, 4684, 17792
special mandrel permits uniform welding of out-of-round tubing, 13758
spot welding gun steadied by shoulder adapter, 6402
submerged-arc, USSR study, 14944
suppressor plate eliminates undesired arching during electron beam welding, 13792
tubing, aluminum oxide filler prevents obstructions, 7781
ultrasonic hand tool allows convenient scanning of spot welds, 12328
ultrasonic recording scanner used for nondestructive weld inspection, 11014
welds chilled by liquid coolant manifold, 13789
see also Hammers.
Weldments, *see* Welding.
Welfare, *see* Public assistance—Social work and problems.
Welfare Administration:
contribution to international cooperation for social development—
French edition, 16903
Spanish edition, 16902
Federal financial participation in costs of prescribed drugs for welfare recipients in Pennsylvania, GAO report, 4505
health programs, law, compilation, 13049
social welfare in changing world, place in process of development—
French edition, 15426
Spanish edition, 15425
what it is, what it does, 2625
Welfare funds:
characteristics of 163,500 plans, July 1, 1965, statistics, 2287
participation of retired employees, etc., hearing, 17590
union welfare-pension funds, Allied Trades Council and Teamsters Local 815, diversion, report, 13138
welfare and pension plans disclosure act—
administration, report of Secretary of Labor, 7639
amend with respect to filing of copies and making affidavits, report, 15896
regulations and interpretative bulletins, 14963
see also Nonappropriated funds.
Welfare in review (periodical), 3704
statistical supplement, 6695
Welfare work, *see* Public assistance—Social work and problems.
Well drilling:
super-deep wells in upper mantle of earth, USSR study, 13474
water, in United States, regional trends, 14750
Weller, William W., low-temperature heat capacities and entropies of ferrous molybdate and ferrous tungstate, 10920
Wellington, New Zealand, Foreign Service buildings program, report, 5637
Wells, J. Robert:
feldspar and related minerals, 12233
feldspar, mepheline syenite, and aplite, 15005
talc, soapstone, and pyrophyllite,
Wells, William L., operating characteristics of arc air heater using direct current as opposed to alternating current, 7874
Wells, William R., sensitivity of short-period tracking data from lunar satellite to lunar gravitational field harmonics, 1271
Wells, Aral-Sor superdeep, Triassic deposits, USSR study, 4600
Welsh, Peter C., woodworking tools, 12396
Wen Shi Yu, *see* Yu, Wen Shi.
Wen, Wen-Yang, thermodynamics of aqueous solutions of quarternary ammonium salts, 853
Wendel, George W., aerial spraying of low-grade hardwood stands with 2, 4, 5–T in West Virginia, 10569
Wenger, Norman C.:
launching of surface waves on axial-cylinderical reactive surface, 4928
liquid-hydrogen density measurements using open-ended microwave cavity, 17930
radiation from slot antenna in ground plane covered by warm plasma layer, 12366
theory of open-ended circular cylindrical microwave cavity, 12369
Wentz, William H., jr., flow fields about delta and double-delta wings at low speeds, 15040
WES, *see* Waterways Experiment Station.
Wessin y Wessin, Elias, testimony, hearing, 1948
West, Dorothy B., public assistance personnel, 7344

West, J. M.:
mineral industry of—
Burma, 4763
Indonesia, 4765
Malaysia, 2333
Mongolia, 16563
North Korea, 4771
Norway, 7700
Philippines, 4773
South Korea, 1145, 16564
Thailand, 2344
West, James A.:
mineral industry of—
Afghanistan, 4759
Bahrain, 1116, 13688
Gabon, 1122
India, 2328
Iraq, 2329, 15015
Kuwait-Saudi Arabia Neutral Zone, 1129
Near East, regional review, 12238
Qatar, Trucial States, Muscat and Oman, Federation of South Arabia and Yemen, 4775, 17846
Saudi Arabia, 1141, 17847
South Asia, regional review, 2347
West, Quentin M., world food needs, 7297
West (U.S.):
beryllium-bearing pegmatite deposits, reconnaissance, 13682
coking-coal deposits, 10633
earthquakes, 1931–64, investigations, 3993
earthquakes, 1933–64, damage, review, 6984
Far West, growth patterns in employment by county, 14247
fresh fruit and vegetable unloads in western cities by commodities, States, etc., 7239
insect pests of deciduous fruits, 14130
intermountain, fire planning, 14713
livestock ranches—
costs and returns, 14529
grazing fees and permitted use of public rangelands on incomes, effects of changes, 4279
Negro, social and economic conditions, 10878, 14983
postwar employment trends, 1947–64 data, 9338
range forbs, notes, 8142
rural farm population, consumer expenditures and income, 25, 12589
rural nonfarm areas, consumer expenditures and income, 1961, supp., 2291
snow, accuracy of field surveys, 3820
soils, aggregate stability, measurement procedure, correlations with soil constituents, 11369
surface water quality for irrigation, 6044
total western region, urban and rural, 1960–61, consumer expenditures and income, 9205, 10856
water development, 7236
water supply—
fall summary, 18103
outlook and snow surveys, 3695
west coast sawmilling, industry wage survey, 2296
western range and livestock report, monthly, 3705
wireworms on irrigated lands, control, etc., 11351
West Central Plains, *see* Great Plains.
West Divide project, Interior Dept. report, 14382
West Germany, *see* Germany.
West Indies:
Cerambycidae (Coleoptera), description and records, 5043
climatological data, 2751
lights and fog signals, list changes, 5055, 9581, 13894, 15237
sailing directions, change, 2479
weather records, 17638
West North Central States, *see* Central States.
West Penn Power Co., President's E award for excellence exporting (remarks), 352
West Point, N.Y., *see* Military Academy, West Point.
West South Central States, *see* Central States.
West Virginia:
aerial spraying of low-grade hardwood stands, 10569
aeroradioactivity survey and geology of area nearest D.C., 9917
census of manufactures, 1963—
area statistics, 15573
manufacturing plants, location by county, industry and employment size, 14258
climatological data, 2751
county business patterns, 3917
economic development problems (address), 320
life tables, 18056
market opportunities for treated wooden guardrail posts, 791
mineral industry, minerals yearbook chapter, 2346
precipitation data, hourly, 3045
Tygart's Valley Soil Conservation District, improved pastures and farm pond (colored poster), 9709
women—
equal pay laws, 5241
labor laws, summary, 14094
Westbrook, Richard B., recreational open space priorities, 17946
Westchester County, N.Y., population, special census, 5492
Westendorf, William H., stability of intermixing of high-velocity vapor with its subcooled liquid in cocurrent streams, 16656
Western Europe, *see* Europe.
Western Greyhound Lines, motor carrier accident, 13442
Western Hemisphere, *see* Hemisphere, Western.
Western hemlock, *see* Hemlock.
Western pine beetles, *see* Beetles.
Western Samoa, nautical chart catalog, 6989
Western States, *see* West (U.S.).
Western Utilization Research and Development Division:
laboratories and functions, 8135
publications and patents, semiannual list, 8136
research on utilization of sugar beets, bibliography, 8131
Weston, Perry L., reduction roasting-acid solution techniques in laboratory processing of Minnesota manganiferous ores, 10918
Wetlands, *see* Swamplands.
Wetmore, Alexander, birds of Republic of Panama, 8020
Wetting agents, wetting golds and platinum by water, 9595
Whales, living species, catalog, 7938
Whaling:
international convention, schedule, amendments, 8082
letters from the captain's wife, 13346
Wharton, C. B., cyclotron waves in collisionless plasma, 2366
Wharton, Howard J., remarks, Jan. 20, 1966, 5203
Wharton Transport Corporation, accident, 6093
Wharves, data, Port of New York, N.Y. and N.J., 13293
Wheat, Francis M., nomination, hearing, 10330
Wheat:
Australian marketing system, 4432
Canadian, strontium-90 in 1963 crop year, 2541
certificates, 1966 issuance, expedite by estimating parity price, report, 10221

Wheat—Continued
commercial farms, Pacific Northwest, northern and southern Plains, cost and returns, 14530
distribution, varieties and classes, 12615
farmers to increase net income (remarks), 3768
futures, commitments of traders, 2765
futures trading and open contracts, 3014
international agreement, extend—
background information, 6728
protocol—
messages from the President, 13070, 13077
report, 13090
text, 16868
malathion, synergized pyrethrum and diatomaceous earth as protectants, in small bins, errata, 6754
minimum price of sale by CCC, increase, hearings, 5794
pasture, 3706
program 1964, frequency distribution, 27
program 1965, statistical summary, 12591
equality, trade agreement with European Economic Community and member states, 1500
Sr-90 accumulation, effect of variety, 2525
stored in Kansas, evaluation of 4 inert dusts for protection from insect attack, 14110
strong and durum, principal varieties, USSR, 1009
variability of wheat yields in Great Plains, 14538
wheat situation, 3707
winter, crop production, 5174
winter, hard, unloading boxcars of grain at terminal elevators, 15434
Wheat flour, *see* Flour.
Wheatgrasses:
bluebunch wheatgrass (Agropyron spicatum), 1920–64, bibliography, 4436
crested, lambing range in northern New Mexico, effects of grazing, 13367
Wheatstone bridge, *see* Electric bridges.
Whedon, G. Donald, progress in development of methods in bone densitometry, 6352
Wheeler, Kermitt E.:
legal status of women in—
Colorado, 12568
Massachusetts, 18145
Wheeler, Larry M., executive calendar, Senate, 3144
Wheeling, W.Va., commodity transportation survey, production area series, 8345
Wheels:
helicopter detachable, ground handling assemblies procurement, Army Dept., GAO review, 17713
vehicular, identification list for Federal supply catalog, Defense Dept. section, 5851
Whelan, Joseph G., Communist Party and coalition governments in Soviet Union and Eastern European countries, 8783
Whelan, Ronald, relief, 5629, 14358, 16042
Where our Nation stands at home and abroad, Republican report, 89th Congress, 2d session, 17405
Where the votes are, 14451
Whiskeytown-Shasta-Trinity National Recreation Area:
establish—
hearing, 579
law, 437
report, 1831
Whitcomb, Harold A., ground-water resources and geology of northern and central Johnson County, Wyo., 12028
Whitcomb, Warren, jr., controlling greater wax moth, pest of honeycombs, 1584
White, Clayton S., bilological tolerance to air blast and related biomedical criteria, 144
White, Donald E., geothermal energy, 4516
White, Elijah, personal health expenses, 6588
White, Elliot J., flow characteristics of oil-producing sandstones in Illinois, etc., 12258
White, Emily T., statistical reporter, 12690
White, G. D., evaluation of 4 inert dusts for protection of stored wheat in Kansas from insect attack, 14110
White, Gladys O., simplified methods for consideration of income and resources, 4348
White, James L., statistical analysis of world's merchant fleets, 4747
White, John H., Cincinnati locomotive builders, 9565
White, John S., simplified calculation of transition matrices for optimal navigation, 11068
White, Kenneth C., guidance scheme for lunar descent based on linear perturbation theory, 2430
White, Lee C., nomination, hearing, 7208
White, Nora D., relief, 4075, 14334, 16012
White, Robert M., address, Nov. 18, 1965, 5892
White, Walter S.:
bauxite deposits of northwest Georgia, 10631
tectonics of Keweenawan Basin, western Lake Superior region, 9020
White amur, *see* Ctenopharyngodon.
White cedar, *see* Cedar.
White clover, characteristics, genetics, diseases, etc., 14131
White Deer Baptist Church, land conveyance, 10113, 15607, 16063
White House Conference on Education, speeches, 14566
White House Conference on Equal Employment Opportunity, report, 1543
White House Conference on Health, panel summaries, 5231
White House Conference on International Cooperation:
congressional delegation, report, 11655
National Citizens' Commission, report of committee on—
aviation, 1544
education and training, 1545
health, 1546
manpower, 1547
science and technology, 1548
technical cooperation and investment, 1549
youth activities, 1550
White House Conference on Natural Beauty:
beauty for America, proceedings, 2626
press releases, 3413
White House Conference, To Fulfill these Rights:
council's report and recommendations, 11322
report, 15429
speeches, 12567
White House Fellows program, 13949
White pine, *see* Pine.
White pine blister rust, control in East, economic guides, 10599
White pine cone beetles, *see* Beetles.
White pine weevils, *see* Weevils.
White primer permits corrosion-resistant coating of minimum weight, 9497
White Sands Missile Range, northern part, geology and availability of ground water, 829
White Sands National Monument, general information, 2473
White Sea, water in active layer, temperature, method of calculating, USSR study, 12157
White spruce, *see* Spruce.
White tolstolobiks, *see* Hypophthalmichthys.
White winged doves, *see* Pigeons.

239–221—67—No. 863——41

Whitehead, Allen H., jr., effect of body cross section and width-height ratio on performance of bodies and delta-wing-body combinations, 11047
Whiteman, Marjorie M., digest of international law, 2575
Whitfield, Charles E., sr., selective electroplating of etched circuits, 1238
Whiting, Wilhelmina F.:
anthracite mining, census of mineral industries, 1963, industry statistics, 6916
bauxite and ferroalloy ores, except vanadium, 11457
chemical and fertilizer mineral mining, 11459
clay, ceramic, and refractory minerals, 12702
iron ores, census of mineral industries, 9950
metal mining services and miscellaneous ores, census of mineral industries, 1963, industry statistics, 14261, 15575
nonmetallic minerals (except fuels), services and miscellaneous nonmetallic minerals, 15576
sand and gravel, 1963 census of mineral industries, industry statistics, 11458
stone, 14262
Whitlock, Charles H., approximation of reentry angles of attack for spinning body, etc., 12362
Whitlow, John B., jr., potential of liquid-methane fuel for Mach 3 commercial supersonic transports, 12352
Whitman, Robert A.:
iron and steel, 1113, 4757
iron and steel scrap, 16561
iron ore in 1965, preliminary, 4758
Whitman Mission National Historic Site, general information, 15225
Whitmore, John:
Bureau of Ships journal, 2716
Naval Ship Systems Command technical news, 9598
Whitney, C. K., Scout motor performance analysis and prediction study (PAPS), 2360
Whitson, Dorothy, U.S. census know-how traverses world, head-counting techniques in premium demand, 1740
Whittaker, Colin W., liming soils, aid to better farming, 15442
Whittaker, James C., cost-accounting system for small sawmills, 11991
Whitten, E. H. Timothy, surface-fitting program for areally-distributed data from earth sciences and remote sensing, 1182
Whittier, Alaska, earthquake of Mar. 27, 1964, effects, 4525
Whittlesey, Norman K., alternative land retirement programs, 14162
Whitton, Rex M.:
highways, changing concept, 16814
remarks—
Dec. 13, 1965, 2547
Apr. 14, 1966, 8006
Aug. 24, 1966, 15316
Wholesale prices, *see* Prices.
Wholesale trade:
bibliography, 16820
census of business, 1963—
Alaska, special report, 6886
area statistics, 204–206, 3881–83
advance reports, 2737
bound volume, 15565
United States summary, 3881
errata, 204
receivables and bad-debt losses, 1700
single and multiunit establishments, 207
subject reports, 207–208, 1700–1, 8326
merchant firms, value produced in and by, 269
primary market price index, monthly report, 3710
Puerto Rico, minimum wage rates for newly covered employment, 5217, 5225
Wholesale trade—Continued
sales and inventories, monthly report, 3224
salesmen, employment outlook, 9272
see also names of commodities and industries.
Why history?, 13282
Why we treat different Communist countries differently, 2578
Whyte, William, USDA employee newsletter, 3655
Wichita, Kans., area wage survey, 4720
Wichita County, Kans., soil survey report, 8032
Wickenden, Elizabeth:
social welfare in changing world, etc.—
French edition, 15426
Spanish edition, 15425
Wickline, Lee E., improvement of instruction through NDEA, 5876
Wickman, Boyd E., insect-caused deterioration of windthrown timber in northern California, 2077
Wideman, F. L.:
copper, 1107, 17835
technologic trends, in mineral industries (metals and nonmetals except fuels), 1171
Widger, William K., jr., meteorological interpretation of nimbus high resolution infrared (HRIR) data, 6328
Widows and widowers:
benefits for widows at age 60 under social security, brief explanation, 1463
Foreign Service officers retirement and disability system adjustments, law, 410
qualifications for social security benefits, reduce period, report, 17331
see also Pensions.
Wiebelt, J. A., design considerations for thermostatic fin spacecraft temperature control, 10966
Wieber, Paul R., acoustic decay coefficients of simulated rocket combustors, 9538
Wiese, W. L., atomic transition probabilities, hydrogen through neon, 11092
Wik, Dennis R., housing for Alaska natives, 5104
Wilcox, Ansley, House, *see* Ansley Wilcox House.
Wild fowl, *see* Game and game birds.
Wild garlic, characteristics and control, 3745
Wilder, Charles S.:
disability days, 1438
hospital discharges and length of stay, short-stay hospitals, United States, 14001
Wilderness areas:
Anaconda-Pintlar, 4435
Flat Tops primitive area, Colo., mineral resources, 13403
national system, annual report, 5609
Spanish Peaks primitive area, Mont., mineral resources, 12015
studies related to wilderness (series), 10635–636, 12015–16, 13403, 14747
Sycamore Canyon primitive area, Ariz., mineral resources, 14747
Wildlife:
autumn olive berries furnish food, 42
code of Federal regulations, 10508
conservation—
estuarine areas, preserve, etc.—
hearings, 14432
report, 15939
Hempstead-South Oyster Bay area coastal wetlands, preserve, etc., hearings, 14432
conservation, protection, and propagation of endangered native species—
hearing, 7206
reports, 14459, 17265
cooperative research units, 30 years of progress, 7440
fish and wildlife coordination act, amend, hearings, 13053

Wildlife—Continued
habitat, blacktail deer and Roosevelt elk in Oregon, Washington, and California, bibliography, 10616
management, USDA's multiple purpose responsibilities (remarks), 9838
pesticides, use and effects, research findings, 4411
publications, price list, 16785
research problems, programs, progress, 17677
special scientific reports, wildlife series, 7443, 10538–540, 11979, 14676–677, 16314
water resource projects, uniform policies and cost allocation, report, 1832
wildlife leaflets, 782–783, 4427–28, 14680, 16315–316
wildlife review, abstracting service, 3711
see also Game and game birds.
Wildlife refuges:
managers, address list, 4423
map of United States showing wildlife refuges, 13651
announcement and order form, 17999
national—
public use, 762
publications, list, 763
system, 2045
refuge leaflets, 759–764, 2041–44, 4413–24, 7437–38, 8941–43, 10534–536, 11974–976, 13347, 14657–672, 16300–310
see also names of refuges.
Wilford, Enid L., architecture, building and engineering, 5319
Willimovsky, Norman J., environment of Cape Thompson region, Alaska, 11432
Wilkes-Barre, Pa., principal electric facilities, map, 7374
Wilkins, Roger W.:
nomination, hearing, 7207
remarks—
Oct. 22, 1965, 4032
Jan. 13, 1966, 4031
Wilkins, Theresa B., accredited higher institutions, 632
Willet, R. P.:
laundry and drycleaning, coin-operated and non-automatic, 11221
sporting goods, 16821
William L. Finley National Wildlife Refuge, birds, list, 14668
William Langer Jewel Bearing Plant, designate, 17193
William O. Huske Lock and Dam, designate, report, 1922
Williams, D. D., acid vapor determination in PPM range, 6546
Williams, G. R., television ophthalmoscopy proceedings of NINDB workshop, 15297
Williams, Grover S., laws relating to wiretapping and eavesdropping, 17586
Williams, James D.:
air resource management plan for Nashville metropolitan area, 6577
talk, Oct. 26, 1965, 9622
Williams, John H., and nuclear science in Minnesota (remarks), 8300
Williams, Kirby H., flight demonstration of nose-mounted rotating-solid-propellant rocket control system, etc., 7855
Williams, Leo C., ocean wave direction gage, 8856
Williams, Lloyd R.:
bauxite, 17834
magnesium, 13687
magnesium compounds, 15013
Williams, Muriel, relief, 17454
Williams, Thomas F., address, June 9, 1966, 15270
Williams, Willard F.:
interregional analysis of fed beef economy, 10409
organization and competition in livestock and meat industry, 17947
Williamson, E. Buford, comparative effects of mechanical picking spindles and hand-picking on cotton quality and spinning performance in Mississippi, 3758
Williamson, Richard L., thinning response in 110-year-old Douglas fir, 10571
Willis, Dawn E., bibliography on right-of-way acquisition, 15313
Willis, Doreen D., relief, 16003
Willis, Edward A., jr.:
finite-thrust escape from and capture into circular and elliptic orbits, 15194, 16675
optimization of double-conic interplanetary trajectories, 4932
Willis, Keith B.:
abrasive, asbestos, and miscellaneous nonmetallic mineral products, 5445
cement and structural clay products, 5897
concrete, plaster, and cut stone products, 3898
glass products, 1704
petroleum refining and related industries, 6903
pottery and related products, 5444
Williston, Hamlin L., forest floor in loblolly pine plantations as related to stand characteristics, 4459
Williston basin, oilfields, 13672
Wilmington, Del., commodity transportation survey, production area series, 8343
Wilmot, Charles A., power requirements and costs for high-capacity cotton gins, 11359
Wilshaw, R. E., Great Lakes ice cover, 9340
Wilson, Basil W., surge-action model of Monterey Harbor, Calif., 8861
Wilson, Edward L., mobile homes, bibliography, 2556
Wilson, Glen P., policy planning for research and development, study, 13066
Wilson, Howard B., design for optimum wave conditions, Dana Point Harbor, Dana Point, Calif., hydraulic model investigation, 13295
Wilson, James E., pacing systems of Apollo program, 1868
Wilson, James H., view from Ranger, 12277
Wilson, Louis F.:
European pine sawflies, 2057
introduced pine sawfly, 7454
pine root collar weevil, 4438
Wilson, M. Christine, information-theoretic concepts in theory of graphs, 10947
Wilson, Peter C., aluminum crimping sleeve prevents hook damage by electrolysis, 4405
Wilson, Robert M., medical library assistance act of 1965, 4535
Wilson, Robert W., jr., selected and annotated bibliography of eastern white pine (Pinus strobus L.), 10598
Wilson, Ronald J., drag and wear characteristics of skid materials, 6469
Wilson, Setsuko, relief, 16049
Wilson, W. Stanley, calculating and plotting surface wave rays, 13291
Wilson's snipes, *see* Snipes.
Wilt diseases, *see* Oak wilt.
Wiltse, Charles M., medical service in Mediterranean and minor theaters, U.S. Army in World War II, 4753
Winard, Arne I., characteristics of families residing in poverty areas, 14272
Wind Cave National Park, general information, 17962
Wind River and Valley, geology of basin, central Wyoming (series), 17720
Wind River project:
non-Indian lands, cancel unpaid reimbursable construction costs—
law, 5589
reports, 537, 4116, 5662
Wind River Reservation, lands in trust status, report, 10309

Wind tunnels:
FM telemetry and free-flight techniques for aerodynamic measurements, 6462
Langley 1-foot hypersonic arc tunnel, velocity measurements, 7843
low-speed tests of manned flight vehicle with several different parawings of 50°-sweep, 15144
rectangular test sections with slotted top and bottom walls, lift interference on sweptback wings, 12371
Wind waves, *see* Waves.
Windbreaks:
central Great Plains—
established plantings, how to manage, 4491
height growth characteristics of Siberian elm, 8966
how to prepare land and plant trees, 4488
how to protect them from damage, 4490
new tree plantings, how to maintain, 4489
tree and shrub species, how to select, 4486
trees and shrubs, how to arrange and space, 4487
trees to protect land and crops, how to use, 4485
forest and windbarrier planting and seeding in U.S., report, 6000
Windeler, A. Stewart, jr., preparation of parotid fluid protein-free filtrates, 8217
Winding machines, precision winding of cylindrical composites with shaped glass filaments, 15038
Windows:
beryllium, from CEA bubble chamber, investigation, 9922
chipped colored glass, for Saint Ann's Church, Las Vegas, Nev., free entry, 8450
Gemini left-hand, effects on experiments requiring accuracy in sighting or resolution, 17927
Windowsill greenhouse, 15476
Winds:
air motion, probing by Doppler analysis of radar clear air returns, 11317
effects upon standing workers servicing Saturn, 16671
field in central Asia and southern Kazakhstan, statisticial structure, USSR study, 14877
Great Plains, southwestern, 3736
high altitude, measurement, agreement with Spain, 12538
loads experienced by piloted launch vehicle, simulation, investigation, 7836
non-isoenergetic turbulent Prandtl number jet mixing between two compressible streams at constant pressure, 9397
observations in stratosphere, seasonal reconstruction, 2443
Santa Ana, in San Gabriel Mountains, case study, 8964
southern California, atmospheric transport and dispersion, 5229
steady-state wind circulation in homogeneous ocean, USSR study, 14843
upper stratosphere and mesosphere measurements, 13848
velocity, profiles measured by smoke-trail method, Eastern Test Range, 6453
wind loads on vertically launched vehicles at various geographic locations and launch altitudes, 6444
Windward Islands:
agricultural products, demand, supply, and imports, projected levels to 1975, summary and evaluation, 11865
Saint Lucia, Peace Corps volunteers, agreement, 5172
Wine, exports (address), 827
Winema National Forest, multiple use progress, 8980
Winfrey, Robley, syllabus for short unit on highway engineering economy, 11206
Wing Yuen Gee, *see* Wong, Wing Yuen.
Wing Yuen Wong, *see* Wong, Wing Yuen.
Wingrove, Rodney C., trajectory optimization by fast-time repetitive computations, 9529
Wings (aircraft):
and wing-body combinations, aerodynamic-center considerations, 16662
bodies and delta-wing-body combinations at Mach 6.9 effect of body cross section and width-height ratio on performance, 11047
delta wings—
delta and double-delta flow fields at low speeds, 15040
delta-wing-body combination, sonic-boom characteristics, 11075
hypersonic pressure and heat transfer tests, 15047
longitudinal aerodynamic characteristics of slab planforms, effect of thickness and sweep angle, 12345
planform surfaces, flutter characteristics, effects of leading-edge sweep at Mach number of 15.4, errata, 15131
swept, 60° and 70°, having turbulent boundary layers, heat-transfer and pressure distributions, 16697
high-aspect-ratio variable-sweep wing of supersonic transport model, pitch-up study, 15160
leading-edge shape effect on aerodynamic characteristics of 67° swept wing-body model, 16691
low-aspect-ratio—
delta-winged model equipped with sharp-edged strakes, wind tunnel tests, ground effects related to aircraft landing, 16663
ogee, flight-measured ground effect, compared with wind-tunnel results, 11058
model with inboard sections cambered for Mach 1.2, investigation at Mach numbers 0.40 to 1.00, 11054
ogee wing—
aerodynamic properties, flight investigation, 2407
aircraft, application of approach speed criteria derived from closed-loop pilot-vehicle systems analyses, 15072
parawings—
controlling, low-speed force and flight investigation of various methods, 4899
dynamic lateral stability and control of vehicle, 12347
50°-sweep, applied to manned flight vehicle, low-speed tests, 15144
semispan tilting wing with 0.5-diameter chord, double-slotted flap, and both left- and right-hand rotation of single propeller, aerodynamic data, 9516
simulated structure, fatigue behavior of annealed sheet, 1190
sweptback, lift interference in rectangular wind-tunnel test sections with slotted top and bottom walls, 12371
thermal-buckling characteristics of leading edges, 4972
triangular and modified triangular, planform effects on aerodynamic characteristics, 9898
triangular planform, hypersonic laminar viscous interaction effects on aerodynamics, 15153
wing-body configurations, slender, maximum lift-drag ratios at hypersonic speeds, geometric modifications, effect, 7829
Winje, R. A., conceptual design study for Mars entry vehicle damper, 15042
Winlund, E. S., reliability and maintainability training handbook, 2552
Winnebago County, Wis., geology and water resources, 10649

Winnemucca, Nev., Humboldt River Valley water resources, 2106, 9023
Winston, Ellen:
addresses—
May 13, 1965, 8113
May 29, 1966, 11318
Winston Churchill Day, *see* Sir Winston Churchill Day.
Winter wheat, *see* Wheat.
Wire, Clara D., land conveyance to, 12808, 12862, 13092
Wire:
bundles formed into grids with minute interstices, 2391
copper, coated with nickel and silver resists corrosion, 17895
copper, tables, NBS handbook, 5005
device protects MOS transistors from damage, 16639
fine, inspection simplified by capillary tube wire holder, 13764
high strength, pressure vessel fabrication, 11012
steel, in aluminum plates, high tensile strength, 12304
tungsten, joined by nickel brazing, 4884
tungsten, stress-rupture properties, 12349
see also Electric wire and wiring—Wire rope.
Wire communication, USSR all-Union scientific session devoted to radio day, 14936
Wire mills, scrap and metal consumption and stocks, mineral industry survey, monthly, 2710
Wire rope, tensions and deflections in logging skylines, 4481
Wire tapping:
laws relating to, 17586
prohibit except by law enforcement officers, hearings, 13221
Wireworms, irrigated lands in the West, control, etc., 11351
Wiring, *see* Electric wire and wiring.
Wirtz, Morvin A.:
remarks, Apr. 28, 1966, 9202
something for the special child, 7320
Wirtz, W. Willard:
addresses, etc.—
June 19, 1964, 6253
Nov. 3, 1965, 1078
Nov. 30, 1965, 1075
Dec. 1, 1965, 1077
Jan. 25, 1966, 4694
Mar. 12, 1966, 7649
Apr. 27, 1966, 9193, 9196
May 2, 1966, 9195
May 18, 1966, 10838
June 6, 1966, 10839
June 11, 1966, 10843
July 7, 1966, 12200
dedication of Hall in his honor (address), 1075
Wisconsin:
architecture, historic American buildings survey, 13882
census of business, 1963 retail trade, area statistics, errata, 192
climatological data, 2751
county business patterns, 243
divorced persons, characteristics, 1444
employment service activities, savings through consolidation, GAO report, 8990
grants for Menominee County, etc., authorize—
hearings, 11824
law, 17140
reports, 15894, 17498
Great Lakes area, fishery products, wholesale dealers list, 769
landings, fishery products, 3194, 16294
life tables, 18057
manufacturing plants, location by county, industry, and employment size, 1963 census, 14256
medical assistance for the aged, under social security act, 11905
Wisconsin—Continued
mineral industry, minerals yearbook chapter, 1151
Mississippi River and tributaries, fishery products, wholesale dealers, list, 2046
Monroe County Soil and Water Conservation District, contour stripcropping, scenic backdrop for town (colored poster), 9710
northern, national forests, Scleroderris canker, 13370
postal map, 13946
precipitation data, hourly, 3045
women workers, 15433
Wisdom, Donald F., popular names of U.S. Government reports, catalog, 16546
Wise, Walter R., jr., explosion containment laws for nuclear reactor vessels, 2502
Wise County, Va., economic and resource development, summary, 2611
Wismer, Robert D., performance of soils under tire loads, tests in clay through Nov. 1962, 8865
Witchweed, watch out for witchweed, 58
Witcofski, Robert D., effect of thickness and and sweep angle on longitudinal aerodynamic characteristics of slab delta planforms, etc., 12345
Witkin, Michael J., patients discharged from short-stay hospitals, 18081
Witzke, Walter R., effect of alloying on grain refinement of electron-beam-melted tungsten, 13835
WMO, *see* World Meteorological Organization.
Wohabe, Abdul, relief, 7077, 13116, 14336
Wohlmuth, Hertha L., relief, 17411
Wolf, Ken, infections pancreatic necrosis (IPN) of salmonid fishes, 8940
Wolf, Martin R., conference proceedings, National Conference on Law and Poverty, 8822
Wolf Lake:
pollution of interstate waters, conference—
proceedings, 7493
technical session, 11962
conclusions, 11961
Wolfe, Jack A., tertiary stratigraphy and paleobotany of Cook Inlet region, Alaska, 12020
Wollastonite, glass-crystal transformation, 10922
Wolowicz, Chester H., X–15 spherical, hypersonic flow-direction sensor, 1253
Wolves, Isle Royale, 13880
Women:
absenteeism and labor turnover, 1565
American, at work, new challenges and responsibilities (address), 9768
changing pattern of women's lives, fact sheet, 2627
earnings in low-income families, 2634
economic advance (remarks), 1554
educational attainment, trends, 2629, 11330, 16909
employment—
equal opportunities, 844
Federal policy developments, progress (address), 5250
opportunities (talk), 1551
sex discrimination, laws against, 6702, 15430
equal pay—
action, 5232
getting facts, 5242
laws 1965—
California, 5236
Missouri, 5237
New York State, 5238
North Dakota, 5239
Rhode Island, 5240
West Virginia, 5241

Women—Continued
equal pay—continued
what principle means, questions and answers, 2633, 16913
what you want in State bill, 5252
why State laws?, 12573
family and property law—
Iowa, summary, 11323
Ohio, summary, 11324
governors' commissions on status of women, 1558
national conference, report, 9033
guidelines for Protestant Women of the Chapel, 613
halfway house, sociocultural and clinical study of Rutland Corner House, 1529
health of those who work, 2530
hours limitation law, administrative and technical problems (remarks), 17990
in Armed Forces, 14204
Islam, attitudes toward women, overcoming them, USSR study, 13480
Job Corps training centers, general information, 7282
job training suggestions, 2632
jury service, eligibility laws, 12572
labor standard improvement and greater employment opportunity (remarks), 16911
legal status in U.S.—
Colorado, 12568
Massachusetts, 18145
let's look ahead (address), 1559
Negro, at work, gains and problems (address), 1560
Negro, in population and labor force, 11327
nonwhite, educational attainment, fact sheet, 1553, 16908
nonwhite workers—
current data, 5234
fact sheet, 2628, 8114
officer's career in Armed Forces, 11847
officers in Armed Forces, remove promotion restrictions, etc., amend U.S. Code, report, 15949
part-time and part-year employment patterns in U.S., 6706
political and civil status, 1562
private household workers, fact sheet, 6705
shortage or surplus? assessment of Boston woman power in industry, Government, and research, conference report, 16912
Soviet, and physical culture, 987
State labor laws, summaries—
Arkansas, 14088
California, 5244
Georgia, 14089
Idaho, 14090
Indiana, 2630
Iowa, 6699
Jan. 1966 summary, 5243
Jan. 1966 summary, with supplement, 12570
Maine, 8115
Maryland, 6700
Massachusetts, 5245
Michigan, 8116
Minnesota, 5246
New Hampshire, 8117
New Mexico, 5247
New York, 6701
North Carolina, 1555
North Dakota, 14091
Ohio, 11325
Pennsylvania, 14092
Utah, 2631
Vermont, 1556
Virginia, 14093
West Virginia, 14094
State minimum wage laws, 11326
status—
northern Minnesota, Arrowhead conference, report, 14096
progress in 1965, report of Interdepartmental Committee and Citizens' Advisory Council, 13426
Women—Continued
wage earners, new challenges and opportunities (remarks), 1566
weightlifting provisions by State, 6703
who's afraid of the educated woman? (address), 7649
why women work, 6704, 15432
womanpower needed (address), 9769
women and cooperatives (talks), 5911
women and men workers in the economy, relative position, fact sheet, 6697
workers, 1960—
Florida, 11332
Indiana, 5253
Kansas, 14097
Minnesota, 5254, 16914
Missouri, 12574
North Carolina, 12575
Ohio, 8118
Puerto Rico, 18146
Virgin Islands, 12576
Wisconsin, 15433
workers, 1965—
bibliography, 14087
handbook, 14087
United States, background facts, 6696
workers, 1966, United States, background facts, 14086
working, study in mobility, 1095
Women, Status of, President's Commission on, *see* President's Commission on Status of Women.
Women workers, *see* Women.
Women's Bureau:
bulletins, 5233, 12568, 14087, 18145
consultation, with State School guidance officials on vocational guidance for girls, 1563
leaflets, 1557–58, 2632, 11326, 14095
pamphlet, 11328
publications, list, 1557
summary of consultation with staff of national youth-serving organizations, 1564
Woman's clothing, *see* Clothing—*also* names or types of clothing.
Won, Chung K., relief, 12897, 14337
Won Kan Cheung, *see* Won, Chung K.
Won Loy Jung, *see* Jung Won Loy.
Wong, Edgar L., mass-spectrometric investigation of reaction of oxygen atoms with methane, 7883
Wong, Laura Hui-Wei, and children, relief, 5742
Wong, Morton M., electrolytes for electrorefining hafnium, 15022
Wong Ock Wah, *see* Hom Sheck See, and wife.
Wong, Wing Yuen, relief, 11720
Woo, Lee Chung, *see* Lee Chung Woo.
Wood, Fergus J., Prince William Sound of Alaska, earthquake of 1964 and aftershocks, 12763
Wood, L. W., derivation of fiber stresses from strength values of wood poles, 4464
Wood, Robert C., nomination, hearing, 4212
Wood:
American, publications, price list, 12458
commercialization of process of manufacturing radiation produced plastic impregnated wood in southern region, 11438
density, key to quality, proceedings of symposium, 7458
failure in glue block shear test, device for estimating, 2058
fireplace wood market in urban area of Connecticut, 17700
impregnation with acrylic monomers, 12683
mechanical properties and structural uses of wood and wood products, publications, list, 7455
Molucca albizzia and nepal alder, species grown in Hawaii, machining properties, 10563
pallets, market for wood pallets, 17702

Wood—Continued
plastic combinations process, commercialization studies, 11429
products—
census of manufactures, 1963—
industry statistics, 6898
manufacturing plants, location, 12699
except furniture, commodity transportation survey, shipper series, 215
industries, manpower use, Oregon and Washington, 10603
millwork, plywood and prefabricated structural, census of manufactures, industry report, 3889
used in single-family houses inspected by FHA, 6779
regional use by manufacturing industries, 8967
salt-treated, sorption and swelling characteristics, 17697
utilization, framework of qualitative relationships, 10593
wood and the homemaker, general information, 2061
wood-plastic combinations using gamma radiation to induce polymerization, 12683
wood-plastic composites, engineering and evaluation study for manufacturing, 15534
see also Hardwoods—*also* names of articles manufactured from wood.
Wood chemicals, *see* Chemicals.
Wood finishing, surface characteristics of wood as they affect durability of finishes, 10595
Wood Hills, Nev.:
discussion of high concentrations of zinc, lead, and mercury in Guilmette Formation and Simonson Dolomite of Devonian age, 16355
geochemical reconnaissance, 16355
Wood poles, *see* Poles.
Wood preservatives:
effects on electrical moisture-meter readings, 2060
field boxes, effects on nail holding, 4467
Wood pulp:
chip production and markets in Lake States, 14701
current industrial reports, 262, 2817
Engelmann spruce, subalpine fir, and lodgepole pine mixtures for bleached groundwood, kraft and sulfite viscose grade pulp, suitability for pulping, 2075
Lake States, production hampered, 14702
see also Paper.
Woodbury, Gerard E., angle-of-attack analysis for Project Fire 1 payload reentry flight, 7879
Woodby, Lauren G., low achiever in mathematics, 648
Woodcocks:
hunting, possession, transportation, importation in Alaska, Federal regulations governing, 14673
status report, 11979
Woodlands, *see* Forests and forestry.
Woodpulp, *see* Wood pulp.
Woods, F. J., ionization produced by catalytic combustion of hydrocarbons, 9596
Woods, R. W., thermal integration of electric power and life support systems for manned space stations, 16590
Woods, William F.:
rural credit unions of United States, 4350
using your rural credit union, 7347
Woods, *see* Hardwoods.
Woodward, Betty, community workshop, after adoption, 280
Woodworking machinery:
and equipment, Federal item identification guides for supply cataloging, supplements, 2933
industrial plant equipment handbook, 606
recommended safeguards, 9201
Woodworking tools, 1600–1900, 12396
Wool:
and related data, statistics 1920–64, 1965 supplement, 15478
and wool tops, futures trading and open contracts, 3011
ASCS program, 6735
broad woven goods, current industrial reports, 2818
consumption on woolen and worsted systems, current industrial reports, 248, 2817
foreign agriculture circulars, 2987
futures, commitments of traders, 2764
grades, official U.S. standards, 11837
market news—
and its importance to marketing efficiency, analysis, 13261
conference report, 1953
weekly summary and statistics, 3159
national wool act of 1954, amend. law, 423
production, price and value, 2598, 8094
shorn, 1966 production, 14041
stocks of wool and related fiber, current industrial reports, 3924
wool situation, 3712
Woolens, protecting against clothes moths and carpet beetles, 9819
Woolf, Philip L., formcoke for blast furnace use, 4797
Woolhiser, D. A., computer program for reduction and preliminary analyses of runoff data, 9
Woollett, Richard R., error in induced electric field modes under Stix coil resulting from assumption of orthogonality of natural plasma modes, 6438
Worcester, Mass.:
area wage survey, metropolitan area, 17808
commodity transportation survey, production area series, 8339
Worcester County, Mass., surficial geology, 9006
Words:
addressing method using concise codes as memory addresses, USSR study, 878
verbal series as function of stimulus grouping for immediate retrieval, 3785, 9861
Work, Robert A., accuracy of field snow surveys, western United States, etc., 3820
Work:
education and work life in changing economy, 12222
equal pay for equal work under fair labor standards act, 5221, 18142
fitness and work arrangements, USSR studies, 12133
Negro woman, gains and problems (address), 1560
performance standards for post engineering, Army pamphlet, 12655
preparing disadvantaged youth, for work, 13290
prisoners, release program for persons sentenced by courts of D.C., authorize, report, 17294
safe work guide, Department of Labor safety training programs, SWG LA series, 7657
safeguard our Nation's youth on the job (series), 9200, 10849, 14967
simplification, ARS guide, 6708
see also Employment.
Work function:
maps of metal surface, made by photoelectric scanner, 17904
measurement of variations by electron-beam scanning, principles and instrumentation, 12424
Work injuries, *see* Injuries.
Work stoppages, *see* Strikes and lockouts.
Work supervisor's handbook, Neighborhood Youth Corps, 1083

Workers, *see* Farm labor—Labor—Women—Youth.
Working for U.S.A., 9997
Working one's way through tomorrow, 13283
Working together, marketing challenge, 9842
Working with groups, guide for administration of group services in public welfare, 14588
Working women, *see* Women.
Workmen's compensation, *see* Employers' liability and workmen's compensation.
Workshop on Group Services:
  background papers—
    French edition, 14583
    Spanish edition, 14584
Workshops:
  good housekeeping, safety dial, 1086
  interpreting for deaf people, Governor Baxter State School for Deaf, Portland, Maine, report, 14069
  market development and promotion for agricultural products seminar, 14536
  rural fallout shelter analysis, student manual, 8386
  sheltered—
    more defense business, highlights of panel discussion, 2288
    under fair labor standards act and Walsh-Healey public contracts act, questions and answers, 15417
  television ophthalmoscopy proceedings, 15297
  walnut workshop, papers presented, 17681
Workweek, *see* Hours of labor.
World, *see* Earth.
World affairs, *see* International relations.
World agricultural production and trade, statistical report, 3715
World beef trends, 11989
World Communist movement, selective chronology, 1871
World Farm Center, endorse concept, report, 17285
World food needs, 7297
World Health Organization:
  research, regulation, education, and information, strengthen, report, 8759
  22d assembly, appropriation—
    law, 5582
    report, 5754
World list of future international meetings, 3716–17
World Meteorological Organization:
  convention, amendments, 9731
  international training seminar on numerical methods of short-range weather forecasting in European countries, USSR study, 14868
World motor vehicle production and registration, 3870
World outlook for food irradiation, 5417
World outside, new directions in Soviet economy, 12846
World trade, *see* Commerce.
World War, 1939–45:
  aspects of leadership of armed struggle, in summer of 1942, USSR study, 1056
  Chinese people's war, 20th anniversary of victory, commemoration, and national policy, etc., 14690
  D-Day plus 20 years, 11685
  Italian campaign, Brazilian Expeditionary Force, activities, 9356
  Marine Corps bibliography, 9349
  radiology, 16969
  30th Army in Khingan-Mukden operation, USSR study, 1065
  Ukrainian Nazi collaborators, thinning ranks, 6245
  United States Army in World War II, 9358, 10907, 13669
World War, 1939–45—Continued
  USSR—
    chronicle of heroic achievements of people, 2161
    facts and thoughts on beginning of great patriotic war, 2156
    heroes of landing at Shumshu, 2153
    Marshall Vasilevskiy gives details of Stalingrad defense, 2160
    unforgettable days, 10722
World weather records, 1951–60—
  Europe, 14581
  South America, etc., 17638
Worldway Postal Center, Los Angeles, Calif., 6565
Worley, David P., gross job time studies, efficient method for analyzing forestry costs, 4450
Worms, publications, price list, 5098
  see also Polynoidae—*also* names of worms.
Worsted, systems, consumption, current industrial reports, 248, 2817
Worth, Muriel P., public roads, journal of highway research, 3430
Worthington, Ohio, railroad accident, 12085
Worthington Corp., conceptual design of 50 MGD desalination plant, 12055
Wortz, Edward C., reduced barometric pressure and respiratory water loss, 6814
Wotruba, Thomas R., automatic merchandising, 16822
Wounds, *see* Gunshot wounds.
Woven goods, *see* Textiles.
Wrapping, *see* Packing.
Wrecking:
  demolition materials, Army technical manual, 3835
  demolition workers, safe work guide, 7657
Wrenches:
  T-handle, has torque-limiting action, 6391
  torque—
    allows readings from inaccessible locations, 9495
    designed for restricted areas, 4848
Wright, Bruce R.:
  aerodynamic damping and oscillatory stability in pitch—
    and yaw of Gemini configurations, etc., 7854
    model of typical subsonic jet-transport airplane, 4918
Wright, Frank L., 2-cent regular postage stamp, 9611
Wright, Patricia S.:
  earned degrees conferred, 1963–64, bachelor's and higher degrees, 7302
  enrollment for advanced degrees, fall 1963, final report, 7304
Wright, R. N., brittle fracture concepts, 5135
Wright, Ray H., wind-tunnel lift interference on sweptback wings in rectangular test sections with slotted top and bottom walls, 12371
Wright, Robert L., flotation stability characteristics of right-circular-conic frustum, 7845
Wright Nuclear Structure Laboratory, dedication (remarks), 15541
Writers, *see* Authors.
Writing:
  Air Force writing (periodical), 2660
  gobbledygook has gotta go, 9341
  Polish emigre, critique of historical authenticity of published documents, 7590
Wrought metals, *see* names of metals.
WS series, 3006
Wuhrman, Robert H., world beef trends, 11989
Wunderlich, Gooloo S.:
  episodes and duration of hospitalization in last year of life, 16812
  national natality survey, 18083
Wunpost quadrangle, Calif., geology, 13398
Wupatki National Monument, general information, 11131
Wurmbrand, Richard, testimony, 11815

Wustite, reduction, relation of heat of adsorption to heat of activation, 4789
see also Ferrous oxide.
Wyoming:
census of manufactures, 1963, area statistics, 14253
central, geology of Wind River basin (series), 17720
climatological data, 2751
county business patterns, 244, 15580
electric rate book, 2023
Indians, general information, 14765
land conveyance to Clara D. Wire, 12808, 12862, 13092
life tables, 18058
manufacturing plants, location by county, industry and employment size, 1963 census, 14260
mineral industry, minerals yearbook chapter, 1152
mineral resources of stratified primitive area, 12016
precipitation data, hourly, 3045
reimburse for improvements on lands in Sweetwater County, report, 17515
soil survey laboratory data and descriptions, 16841
Teton Soil and Water Conservation District, irrigated intermountain pasture (colored poster), 9711
Upper Niobrara River compact, approving, report, 16092
water supply outlook and snow surveys, 3696
special report, 9713
Wyoming County, Pa., geology, Ransom quadrangle, 13397

X

X–11 variant of census method II seasonal adjustment program, 271
X–15, *see* Airplanes.
X-ray photography, *see* Radiography.
X-ray spectra, *see* Spectra.
X-ray technicians, medical, employment outlook, 10861
X-rays:
bone densitometry methods, development, progress, 6352
comparative merits of radioisotope and machine sources of x-radiation for aerospace applications, 12682
diffraction—
patterns, calibrated, felsic rocks, rapid modal analysis, 4511
powder analysis, specimen holder design improves accuracy, 6401
powder patterns, 15206
inflatable holding fixture permits X-rays to be taken of inner weld areas, 13763
irradiation effect of prophylactic administration mucopolysaccharide preparation on hemopoiesis and survival of animals, USSR study, 6221
low-energy X-ray spectral lines, instrumentation for primary and secondary excitation, 1161
low-level x-irradiation, central nervous system response, 7990
mass attenuation coefficients, cooperative action on determination, 5017
population exposure, 1964, report on PHS study, 18067
shielding, medical and dental, guidance for design, 16962
soft, photoionization detector, 6417
Xanthates, infrared spectroscopy studies of xanthate-galena system, 15021
XV–9A hot cycle research aircraft, *see* Aircraft.

Y

Yadlosky, Elizabeth, election law guidebook, 10276
Yakima basalt and Ellensburg formation of south-central Washington, 13402
Yakima Reservation, timber, potential intensive management, 10661
Yakowitz, H.:
homogeneity characterization of NBS spectrometric standards, cartridge brass and low-alloy steel, 5007
Yale University:
multigap magnetic spectrograph and mass spectrometer, duty-free entry, 389, 542
nuclear progress at Yale (remarks), 15541
Yamazi, Isamu, zooplankton communities of Navesink and Shrewsbury Rivers and Sandy Hook Bay, N.J., 7444
Yang, Kimberly A., relief, 12892, 14350
Yao, Augustine Y. M., relief, 1901
Yao, Man nationality of Vietnam, Soviet study, 17778
Yarber, G. W., control moment gyro optimization study, 7726
Yarding, *see* Lumbering.
Yards and Docks Bureau:
design manuals, 1569, 6707
publications, index, 8119
Yarmouth Castle (ship):
disaster, report, 8613
Yarn:
silk, temporary suspension of duty, extend, report, 482
spun, for sale, current industrial reports, 2817
textured, reports, 1511, 7212
Yarn mills, census of manufactures, 1963, industry statistics, 6892
Yates, W. W., brushless d.c. torque motor, 4829
Yavorsky, P. M., beta-radiation-induced telomerization of methanol with ethylene, 8290
Yaw:
control in hovering, semispan tilt-wing VTOL model, ground effect on full-span flaps, 11064
Gemini configurations, damping and stability in pitch and yaw, 7854
Yeager, Lee E., 30 years of Cooperative Wildlife Research units, 7440
Year of double trouble, 7361
Yearbooks:
minerals, 1964—
area reports, domestic—
departmental edition, 4785
document edition, 4048
fuels—
departmental edition, 4784
document edition, 4047
metals and minerals except fuels—
departmental edition, 4783
document edition, 4046
North Korean, 9098, 9119
Yellow birch, *see* Birch.
Yellow Creek, watershed area, economic and resource development, summary, 2614
Yellow fever, immunization of guinea pigs against, USSR studies, 10834
Yellow perch, growth rates after control with piscicide, 11977
Yellow pine, *see* Pine.
Yellow poplar, *see* Tuliptree.
Yellow-rumped tanagers, *see* Tanagers.
Yellowfin tuna, *see* Tuna fish.
Yellowpoplar, *see* Tuliptree.
Yellowstone National Park, general information, 1336
Yemen:
geology, 17722
mineral industry, minerals yearbook chapter, 4775, 17846
Yen,Yin-Chao, Stefan problem, 9888
Yeomans, A. H., respiratory devices for protection against certain pesticides, 5264
Yeomen:
communications—
class A, trainees guide, 2489
3d class, Navy training course, 1343
1 & C, Navy training course, 7968
Yett, William E., basic data on economy of Switzerland, 12777

YOC, *see* Youth Opportunity Centers.
Yochelson, Ellis L., Mattheva, proposed new class of mollusks, 12023
York, Pa.:
area wage survey, metropolitan area, 9321
commodity transportation survey, production area series, 9952
Yosemite National Park:
employees, validate action extending 1955 leave year—
law, 8472
reports, 7178, 8591
general information, 13888
Yoshikawa, S., ballooning interchange instabilities of magnetized plasmas under gravitational fields, 8286
You and the public, servants of the people, 17040
You and your passport, 15339
You can make your own luck, special message for Indian teen-agers, 13425
You I Souk, relief, 8715
You too can get help, 1601
Young, A. Barrie, jr., approach, naval aviation safety review, 2684
Young Cortland E., jr., soil sampling small wetland forest plots in Coastal Plain, 14711
Young, E. J., jasperoids of Lake Valley Mining District, N. Mex., 4513
Young, Joseph W., selected facial measurements of children for oxygen-mask design, 15555
Young, L. E., floods of Jan.-Feb. 1963 in California and Nevada, 10651
Young, L. L.:
waterpower resources—
and reconnaissance geology of sites in Alsea River basin, Oreg., 17727
in Nehalem River basin, Oreg., 826
Young, Laurence R., visual and control aspects of saccadic eye movements, 16594
Young, R. M., soft X-ray photoionization detector, 6417
Young, Robert J., monkey colony management, 11384
Young, Stanley G., accelerated cavitation damage of steels, etc., in liquid metals, 9539
Young, W. H., coal bituminous and lignite, 2316
Young William E.:
manganese occurrences in Eureka-Animas Forks area of San Juan Mountains, San Juan County, Colo., 16558
mining methods, etc., uranium mine, Homestake-Sapin Partners, 4755
Young people, *see* Youth.
Young workers, *see* Youth.
Youngstown, Ohio:
area wage survey, 6263
commodity transportation survey, production area series, 8344
principal electric facilities, map, 7375
Your child from 6 to 12, 9975
Your Department of State, 9719
Your Federal income tax for individuals, 864
Your interest in U.S. flag merchant ships, 4748
Your job and psychiatric patient, 5211
Your money and your life, FDA memo for consumers, 8946
Your plentiful foods program, marketing aid, 1602
Your professional development, 17715
Your social security, 12511
Your water supply and forests, 16922
Youth:
adolescence, psychological changes, 274
AFDC, public welfare projects focus on education, 16253
America's children and youth in institutions, demographic analysis, 6943
CAUSE [Counselor-Advisor University Summer Education] II prepares 2000 to counsel youth, 662
Youth—Continued
challenge to supervisors, making young workers safe workers, 16519
communist program—
hearings, 11816
report, 10353
disadvantaged—
NDEA institutes for advanced study for teachers, 5877, 5884A
preparing for work, 13290
effects on young people of violence and crime portrayed on television, report, 1924
employment, industry practices and policies, 1540
facts and figures, 9978
farmworkers, injuries, 14967
group leaders, forestry conservation activities, guide, 16935
from school to work, federal services to help communities, 60
glucose tolerance responses, 6815
handicapped, education, conference report, 10421
Indian teen-agers, college and technical training opportunities, 13425
Job Corps, education in conservation center, 7276
juvenile delinquency and youth offenses control act training grants awarded, Sept. 1964-Sept. 1965, summaries, 16906
lifting, danger, 12202
moving into adolescence, your child in his preteens, 11483
neighborhood youth corps—
program (remarks), 4694
rural community action program, 16220
nonwhite, employment problems in Michigan, 12748
opportunity programs, door is opened, 14067
pre-employment training, safety guide, 17625
profile, 17408
project grants to provide comprehensive health services, policies and procedures, 3944
publications, list, 10852
report of Committee on Youth Activities, National Citizens' Commission, 1550
resident worker, examination announcement, 15634
rural—
in crisis, facts, myths, and social change, 1541
opportunity centers, jobs, employment, etc., 16221
safeguard our Nation's youth on the job (series), 9200, 10849, 14967
safety, kit o'tips for youth and their employers, 10848
16 and 17 years of age in school, by counties of United States, 1960, map, 9973
teenagers, guide for parents, 6774
unemployed, Oak Glen training camp, 14961
upward bound, program to help youth from low-income families achieve college education, policy guidelines, etc., 7284
Women's Bureau, consultation with staff of National Youth-serving organizations, Apr. 15, 1964, summary, 1564
young people's use and appraisal of natural and competing fibers in wearing apparel, 14144
young smokers aren't really hooked, you can quit smoking, 3945
young workers—
common sense about supervising, pointers on getting them off to a good start, 18135
manpower report, 14964
youth we haven't served, socioeconomically handicapped, challenge to vocational education, 8854
Youth centers, *see* Recreation centers.
Youth Corps, *see* Neighborhood Youth Corps.

Youth Councils on Civic Affairs, incorporate, veto message, 462
Youth opportunity centers:
  directory, 16245
    general information, 5885
    taking stock, 10435
Youth Temperance Education Week:
  designate—
    law, 10062
    reports, 5772, 8608
Yttrium:
  influence on oxidation of nickel at 1,200°C, high-temperature corrosion studies, 12255
  selenides and tellurides, thermoelectric properties, 17860
Yu, Wen Shi, relief, 16051
Yugoslav language, *see* Serbo-Croatian language.
Yugoslavia:
  agricultural commodities, agreements, 6641, 8068, 8078–79, 15369
  biological warfare agents, comment, 14899
  compensated and ohmic measuring voltage dividers of Nikola Tesla Institute, 962
  cotton textiles, trade, agreement, 6652
  cybernetics, international conference, science and society, 13508
  foreign currencies, U.S.-owned, report, 17353
  irradiation possibilities in 2 kilocurie Co^{60} radiation unit at Boris Kidric Institute at Vinca, 951
  labor conditions, 12226
  mineral industry, minerals yearbook chapter, 4782
  NATO and Warsaw Pact analysis, 14812
  selling in Yugoslavia, 8431
Yukon River and Valley, probable maximum flood above Rampart, Alaska, meteorological conditions, 15420
Yung, Kim Kap, relief, 15793, 17434
Yung Mi Kim *see* Kim, Yung Mi.
Yuska, Joseph A., static aerodynamic characteristics of rocket with thick wedge fins, etc., 4930

Z

Zablocki, Clement J., report on Vietnam, 7141
Zaborsky, John, digital adaptive filter, etc., control techniques applied to large launch vehicles, 9431
Zaffarano, Richard F., natural gas, 1153
Zagoria, Sam:
  remarks—
    Nov. 18, 1965, 1320
    Feb. 5, 1966, 5036
    Mar. 3, 1966, 6494
    Apr. 1, 1966, 7933
    Apr. 30, 1966, 9562
    May 19, 1966, 11115
    June 24, 1966, 11118
    Oct. 13, 1966, 17954
Zahn, John J., lateral stability of deep beams with shear-beam support, 5991
Zalewski, Anna, *see* Holoweckyj, Anna M.
Zambia:
  background notes, 11246
  economy, basic data, erratum, 339
  mineral industry, minerals yearbook chapter, 7702
Zapp, Alfred D., bauxite in areas adjacent to and between Springvale and Andersonville districts, Ga., 2091
Zaretsky, Erwin V., bearing life and failure distribution as affected by actual component differential hardness, 1267
Zeigler, Glen, relief, 17419
Zener diodes, *see* Crystal diodes.
Zero errors, *see* Errors.
Zero gravity:
  environment—
    flammability, 17932
    use of aircraft to produce, 9517
Zero gravity—Continued
  magnetic fluid readily controlled, 1211
  pressure drop of nonwetting mercury, 4933, 15134
  pressure losses of condensing mercury in constant-diameter tube, errata, 15133
  see also Weightlessness.
Zero power reactors, *see* Reactors (atomic).
Zia Pueblo:
  land to be given in trust—
    law, 5588
    report, 4115
Zierdt, William H., jr., Army Reserve magazine, 2692
Zimmer, Paul D., Rock Island Dam, Columbia River, Wash., annual fish passage report, 17679
Zimmet, Steven, public domain, its place in our history, etc., 10888
Zinc:
  diffusion into gallium phosphide or arsenide, 9412
  electrodes for electrochemical cells, improvement, 4832
  high concentrations in Guilmette Formation and Simonson Dolomite of Devonian age in Pequop Mountains and Wood Hills, Nev., 16355
  industry, mineral industry survey, monthly, 3718
  mine production, mineral industry survey, monthly, 3719
  minerals yearbook chapter, 1173
  ores, census of mineral industries, 1963, industry statistics, 15575
  release from either national or supplemental stockpile, or both—
    hearing, 570
    law, 424
  scrap, mineral industry survey, monthly, 3721
Zinc oxide:
  mineral industry survey, monthly, 3720
  spectral emittance on opaque substrates, 1277
  thermodynamic properties of ZnO-Fe_2O_3-Fe_3O_4 system at elevated temperatures, relation to—
    spinel structure, 9376
    zinc concentrate roasting, 12242
Zinc sulfide, high-temperature heat contents and entropies of 2 zinc sulfides and 4 solid solutions of zinc and iron sulfides, 2353
Zinn, Charles J., constitution of U.S., index, etc., 15786
ZIP code:
  numbers, post office directory, 1966, 17988
  post offices, national directory, 6564
  system in U.S. postal service, encourage use by volume mailers, hearings, 11680
Zircon producing hafnium-enriched feed solutions, 12256
Zirconium:
  elemental, USSR physical-chemical studies, 9087
  minerals yearbook chapter, 15034
  uraniferous zirconium deposits of Pocos de Caldas Plateau, Brazil, 13395
Zirconium carbide, liquid, containment on graphite between 3500° and 4700° K, 16614
Zirconium diborides, chemical reactions and bonding in these compounds, 13836
Zirconium oxides, suboxides, USSR physical-chemical studies, 9087
Zirconium silicate, prophylaxis pastes, performance, 8208
Zirconium suboxides, *see* Zirconium oxides.
Zirm, R. R., dual calsphere experiment, 1365
Zitter, Meyer:
  inventory of State, etc., agencies preparing population estimates, 5491
  population projections, 5489

Zola, Charles L.:
minimum propellant consumption round-trip trajectories to Mars for vehicles with optimum coasting periods, 4967
propellant requirements of low-thrust trajectories, 7895
Zonal centrifuges, *see* Centrifuges.
Zonal harmonics, in low frequency terrestrial radio wave propagation, 13866
Zoning, *see* Cities and towns.
Zoogeography, marine, late Pleistocene, in central California, 16361
Zoology:
medical and veterinary, index-catalogue, 5274, 6715, 8133–34, 9793–94, 16918
Soviet—
recent developments, 6178
recent studies, 6175
Zooplankton:
coastal waters of Gulf of Maine, 1964, seasonal and areal distribution, 13349
communities of Navesink and Shrewsbury Rivers and Sandy Hook Bay, N.J., 7444
Zootechnicians, Soviet N. G. Belen'kiy criticized for poor research practices, USSR study, 17779
Zootechny, scientific research, perspectives, Rumanian study, 12108
Zozulya, N. V., heat exchange during vapor condensation, 4989
ZPR–II, *see* Reactors (atomic).
Zubovic, Peter, distribution of minor elements in coals of Appalachian region, 13393
Zuk, John, flow and pressure field analysis of parallel groove geometry for incompressible, fluid, etc., 15201
Zuniga, Manuel A., relief, 11717
Zuzik, Michael B.:
Labor laws and practice in—
Kingdom of Libya, 16527
Malaysia and Singapore, 4713
Zwick, Jack, foreign banking in United States, 12840
Zwiefelhofer, Kuniki N., relief, 7074, 11540, 11725
Zych, Zofia, relief, 16053
Zyryanov, Col Gen, chief of Soviet Border Forces, interview, 12120